PROCEEDINGS

OF THE

MADRAS GOVERNMENT

IN THE

PUBLIC WORKS DEPARTMENT,

BUILDINGS AND ROADS BRANCH,

FOR THE

MONTH OF OCTOBER 1893.

Printed by Authority.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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Exchange compensation allowance.—Circular from the Accountant-General, Public Works Department, containing a memorandum of rulings on claims for —, communicated to officers of the department.	1893. 13th Oct., No. 2601 W.	...	......
Rent.—Application for remission of — of the Police Assistant Superintendent's bungalow at Ongole during the period it was under repair, sanctioned, and a copy of these Proceedings, ordered to be forwarded to the Government of India.	13th Oct., No. 2602 W.	...	11th Aug. 1893, No. 2851 C 20th Sept 1893, No. 2415 W.
Forwarded	13th Oct., No. 2603 W.	...	......
Engineer establishment of the Public Works Department.—Resolution of the Government of India relative to the re-organisation of the —, communicated to officers of the department with an intimation that a revised scale of establishment drawn up in accordance therewith will be published in the *Fort St. George Gazette.*	13th Oct., No. 2604 W.	...	9th Jan. 1885, No. 74 W. 21st July 1888, No. 2223 W. 12th Aug. 1892, No. 2232 W. 17th Nov. 1892, Nos. 3155–56 W. 2nd Dec. 1892, No. 3293 W. 23rd Jan. 1893, No. 158 W. 12th July 1893, No. 1828 W.
Deputy Tahsildar's office at Ambúr.—Estimate of Rs. 16,550 for constructing a — in North Arcot district, sanctioned with remarks.	13th Oct., No. 2606 W.	...	4th Feb. 1893, No. 258 W.
Indent.—The — for copper sheets for sheathing wooden lock gates on the Buckingham canal, ordered to be forwarded to the Home Government for compliance.	13th Oct., No. 2607 W.	...	26th Sept. 1893, No. 2471 W.
Forwarded	13th Oct., No. 2608 W.	...	......
Funds.—Orders on letter from the Government of India requesting that measures be taken to remedy the irregularity of sanctioning allotments for works without sanctioned estimates.	13th Oct., No. 2615 W.	...	13th Oct. 1887, No. 2700 W. 7th March 1893, No. 746 W. 9th Feb. 1893, No. 356 W. 9th Feb. 1893, No. 359 W. 20th Feb. 1893, No. 449 W. 3rd May 1893, No. 1197 W. 5th May 1893, No. 1211 W.

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
			(*Continued.*) 1st June 1893, No. 1457 W. 15th June 1893, No. 1586 W. 26th June 1893, No. 1668 W. 10th July 1893, No. 1806 W. 2nd Aug. 1893, No. 1996 W. 3rd Aug. 1893, No. 2000 W. 9th Aug. 1893, No. 2044 W. 18th Aug. 1893, No. 2125 W. 25th Aug. 1893, No. 2192 W. 28th Aug. 1893, No. 2194 W. 28th Aug. 1893, No. 2195 W. 29th Aug. 1893, No. 2204 W. 4th Sept. 1893, No. 3008 C. 5th Sept. 1893, No. 2288 W. 9th Sept. 1893, No. 2328 W. 11th Sept. 1893, No. 2335 W. 11th Sept. 1893, No. 2336 W.
Copy of above Proceedings forwarded to the Government of India.	1893. 13th Oct., No. 2616 W.	...	......
Police works.—Proposals of the Inspector-General of Police relating to the preparation annually of two lists of —, one for works for which plans and estimates are to be prepared, and the other for those for which allotments are proposed in the ensuing year's budget, approved with certain instructions.	13th Oct., No. 2617 W.	...	7th Oct. 1892, No. 2806 W. 17th March 1893, No. 1274 C. 15th June 1892, No. 1787 W. 24th April 1893, No. 1138 W.
Watchmen.—Ordered that the Government of India be addressed in connection with the incidence of the pay of — employed in guarding tools and plant.	13th Oct., No. 2618 W.	...	13th Aug. 1889, No. 2196 W. 20th Nov. 1889, No. 3298 W. 28th March 1893, No. 840 W. 6th April 1893, No. 897 W. 13th July 1893, No. 2608 C.
The Government of India addressed ...	13th Oct., No. 2619 W.	...	......

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
	1893.		
Classification of roads.—Letter from the Government of India forwarding correspondence regarding insufficiency of the existing — as prescribed in the Public Works Code, and requesting to be informed whether any change is necessary, and if so, what classification is preferred, communicated to Superintending Engineers and the Local and Municipal Department for remarks.	13th Oct., No. 2620 W.	...	......
Land.—Notification for the acquisition of certain — in Vaccadai village, Wandiwash taluk, required for the construction of an inspection bungalow by the Public Works Department, returned unpublished to the Collector of North Arcot with remarks.	14th Oct., No. 2630 W.	...	5th June 1891, No. 1536 W. 7th Sept. 1893, No. 3029 W.
Budget estimate.—Orders on the — on conservation works during 1894–95.	16th Oct., No. 2638 W.	...	7th Oct. 1891, No. 2683 W.
Latrine.—Estimate of Rs. 690 for constructing a — in the taluk office at Ellore in the Gódávari district, sanctioned.	16th Oct., No. 2640 W.	...	4th Sept. 1893, No. 793 D.
Establishment.—Report by the Examiner, Public Works Accounts, in regard to the transfer to "Works" of certain classes of inferior servants hitherto charged to "Establishment" and the grant of compensation retiring gratuities to them, ordered to be forwarded to the Government of India.	16th Oct., No. 2642 W.	...	28th March 1893, No. 840 W. 25th July 1893, No. 1927 W. 25th July 1893, No. $\frac{1927}{A}$ W. 27th Sept. 1893, No. 2479 W.
Forwarded	16th Oct., No. 2643 W.	...	......
Madras Harbour Works.—Progress report of the — for quarter ending 30th June 1893, ordered to be forwarded to the Government of India and the Secretary of State.	16th Oct., No. 2645 W.	...	......
Copy forwarded to the Government of India.	16th Oct., No. 2646 W.	...	......
Copy forwarded to the Secretary of State.	16th Oct., No. $\frac{9}{2645}$ W.	...	......
Annual confidential reports.—Correspondence conveying the approval of His Royal Highness the Commander-in-Chief to the continuance of the present practice in connection with the information to be furnished regarding the professional qualifications of Royal Engineer officers in their —, communicated to officers of the department concerned with instructions.	16th Oct., No. 2648 W.	...	2nd May 1893, No. 1188 W.

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
Barrack Department.—Ordered that the Government of India be addressed on the subject of the transfer to the Public Works Department of the duties of the — at stations in which military works are still in charge of the Public Works Department.	1893. 18th Oct., No. 2661 W.	...	19th Jan. 1878, Nos. 321–22 W. 16th Dec. 1881, No. 3130 W. 21st July 1888, No. 2237 D. 14th July 1888, No. 413 D. 8th May 1888, No. 140 D. 14th July 1888, No. 2141 W. 25th Oct. 1888, No. 4101 C. 23rd Nov. 1888, No. 3700 W. 28th Nov. 1888, No. 3749 W. 29th Nov. 1888, No. 4779 C. 29th Nov. 1888, No. 4780 C. 30th Nov. 1888, No. 4807 C. 21st Dec. 1889, Nos. 3645–46 W. 26th Nov. 1889, No. 3178 W. 16th Jan. 1893, Nos. 86–87 W. 5th June 1893, No. 1493 W.
The Government of India addressed ...	18th Oct., No. 2662 W.	...	......
Damages.—Passing orders in connection with the — done by spoil from the Nilgiri Railway works and the incidence of all charges incurred for repairing such damages.	18th Oct., No. 2663 W.	...	......
Telephone system in Madras.—Accepting the revised charge of the — from 27th September 1893 in consequence of communication being established between the Madras High Court and the Central Exchange, Fort St. George.	20th Oct., No. 2674 W.	...	31st Aug. 1893, No. 2233 W.
Telegraph system in the Madras Presidency.—Correspondence in connection with the extension of the —, ordered to be forwarded to the Director-General of Telegraphs for consideration.	20th Oct., No. 2676 W.	...	14th May 1891, Nos. 1335–36 W. 12th Feb. 1892, Nos. 439–40 W. 25th March 1892, No. 986 W. 21st Dec. 1892, Nos. 3489–90 W. 9th Jan. 1893, Nos. 6–7 W. 23rd Jan. 1893, No. 162 W.

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
			(*Continued.*) 6th April 1893, No. 1791 C. 6th April 1893, No. 905 W. 7th Aug. 1893, Nos. 2026–27 W. 23rd Aug. 1893, No. 2170 W. 21st Sept. 1893, No. 2431 W. 21st Sept. 1893, No. 2432 W. 12th Aug. 1893, No. 2071 W.
Forwarded	1893. 20th Oct., No. 2677 W.	...	......
Foot suspension bridge across the Kullar river.—The estimate of Rs. 5,062 for constructing a — on the Méttupálaiyam-Coonoor road, sanctioned with remarks and its retention after the completion of the permanent road bridge ordered.	23rd Oct., No. 2684 W.	...	11th Sept. 1893, No. 2345 W. 28th Aug. 1893, No. 761 D. 9th Aug. 1893, No. 675 D. 9th Aug. 1893, No. 674 D. 1st June 1893, No. 286 D. 1st May 1893, No. 1185 W.
Madras College of Engineering.—Ordered that the Government of India be addressed on the subject of the admission of soldier students to the — and their employment in the subordinate grades of the Public Works Department.	23rd Oct., No. 2685 W.	...	23rd May 1884, No. 1291 W. 26th Jan. 1886, Nos. 221–22 W. 22nd March 1886, No. 755 W. 21st March 1886, No. 1902 C. 12th Sept. 1888, Nos. 2829–30 W. 13th June 1893, No. 386 D. 19th June 1893, Nos. 1626–27 W.
The Government of India addressed ...	23rd Oct., No. 2686 W.	...	......
Anglican Church at Bezwada.—Ordered that the Government of India be addressed on the subject of a grant being made towards the construction of an —.	24th Oct., No. 2690 W.	...	......
The Government of India addressed ...	24th Oct., No. 2691 W.	...	......

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
Type plans of certain civil buildings.—Errata in estimates accompanying — circulated to officers of the Public Works Department in view to the corrections indicated being made in the schedules of quantities.	1893. 24th Oct., No. 2694 W.	...	27th July 1893, No. 2732 C. 14th March 1893, No. 694 W. 10th July 1893, Nos. 547–48 D. 2nd June 1893, No. 2222 C. 22nd March 1893, No. 785 W. 23rd Sept. 1892, No. 4236 C. 7th Sept. 1892, No. 2489 W. 11th Nov. 1891, No. 3023 W. 20th Nov. 1891, No. 3122 W. 7th Nov. 1891, No. 2978 W. 8th Aug. 1891, No. 2122 W. 31st May 1891, No. 1320 W. 21st July 1888, No. 2230 W. 27th July 1887, No. 2008 W. 21st April 1887, No. 1098 W.
Measurement book.—Ordered that the Government of India be addressed regarding the continuance of the practice hitherto in Madras for officers to make pencil entries in the — at the site of works and to have them inked in themselves on the same day.	24th Oct., No. 2709 W.	...	7th Sept. 1893, No. 3032 C. 4th Jan. 1892, No. 6 W. 5th Dec. 1889, No. 5700 C.
The Government of India addressed ...	24th Oct., No. 2710 W.	...	......
Bhaváni reservoir project.—The entertainment for 12 months of a surveyor on Rs. 115 per mensem for investigations connected with the — in the Coimbatore division, sanctioned with remarks.	24th Oct., No. 2711 W.	...	21st July 1893, No. 1897 W. 8th March 1893, No. 221 I. 20th June 1892, No. 547 I. 5th May 1886, No. 337 I. 15th Oct. 1884, No. 933 I. 21st April 1883, No. 338 I.
Clerical staff of the Public Works Department.—Issuing orders for the improvement of the — in the mofussil by the introduction of a class of better educated men than those obtainable under the present system of recruiting.	24th Oct., No. 2720 W.	...	12th Aug. 1893, No. 690 D. 27th Feb. 1893, No. 518 W. 12th April 1893, Nos. 1013–14 W.

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
Ootacamund lake.—Passing orders on certain proposals in connection with the reclamation of the upper portion of the — by the silting process.	1893. 26th Oct., No. $\frac{2738}{A}$ W.	...	(*Continued.*) 10th July 1893, No. 1802 W. 7th Sept. 1892, No. 2502 W. 22nd March 1883, No. 931 W. 9th Oct. 1893, No. 1012 D. 14th Oct. 1893, Nos. 1049–50 D.
Her Majesty's Penitentiary, Madras.—Supplemental estimate of Rs. 620 for constructing verandahs to the new guard-room at —, sanctioned.	26th Oct., No. 2745 W.	...	13th April 1893, No. 1023 W.
Rents.—The statement giving data for calculation of — of certain buildings in the Kurnool division, approved.	26th Oct., No. 2747 W.	...	4th Oct. 1893, No. 3270 C. 29th Aug. 1893, No. 2210 W. 13th June 1893, No. 1568 W. 19th Aug. 1892, No. 2308 W.
Indent.—Ordered that the Director-General of Stores be informed that the — for pine planks may be cancelled.	26th Oct., No. 2748 W	...	14th June 1893, No. 1582 W. 14th June 1893, No. 1583 W. 28th Sept. 1893, No. 2490 W.
The Director-General of Stores addressed.	26th Oct., No. 2749 W.	...	......
Forest bungalow at Nandyal.—Estimate of Rs. 2,700 for repairs and improvements to the — in Kurnool district, sanctioned.	27th Oct., No. 2754 W.	...	......
Tirumal Naick's palace at Madura.—Revised estimate of Rs. 9,720 for alterations and improvements to —, sanctioned.	27th Oct., No. 2755 W.	...	16th March 1886, No. 697 W. 11th May 1891, No. 1290 W. 8th Feb. 1892, No. 397 W.
Periyár project.—Letter from the Director-General of Stores, India office, intimating the cost of the spare parts of disintegrators indented for Periyár, No. I Division, communicated to officers concerned.	31st Oct., No. 2764 W.	...	21st July 1893, Nos. 1881–82 W.
Bridges.—Revised estimates of Rs. 40,600 and Rs. 42,800, respectively, for the construction of masonry — over the Suruliyár river at Virapundi and Uttamapálaiyam on the road from Periyakulam to Cumbum in Madura district, sanctioned with remarks.	31st Oct., No. 2766 W.	...	18th Sept. 1893, No. 866 D.

1 Subjects.	2 Numbers and Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
Record-room of the taluk cutcherry at Arcot.—The Superintending Engineer, IV Circle, requested to prepare an estimate for extending the — by 25 feet instead of by 12 feet as directed in G.O., No. 1305 W., dated 15th May 1893.	1893. 31st Oct., No. 2771 W.	...	......
Residence.—Estimate of Rs. 10,600 for constructing a — for the Head Assistant Collector at Bezwada, sanctioned for early execution, and the Government of India ordered to be addressed with respect to the method adopted by it in calculating rent.	31st Oct., No. 2774 W.	...	18th March 1891, No. 1545 C. 23rd April 1891, No. 1029 W. 15th May 1891, No. 2521 C. 26th May 1891, No. 1430 W. 7th Nov. 1891, No. 2967 W. 14th Dec. 1892, No. 5288 C. 1st June 1893, No. 2214 C. 28th Aug. 1893, Nos. 2194–95 W.
The Government of India addressed ...	31st Oct., No. 2775 W.	...	......

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT,

BUILDINGS AND ROADS BRANCH,

FOR THE MONTH OF OCTOBER 1893.

Buildings and Roads.
Civil Works.

READ—the following paper:—

G.O., dated 15th September 1893, No. 1892, Judicial.

Read—the following letter from the Registrar, High Court, Appellate Side, Madras, dated 1st September 1893, No. 2321:—

In forwarding, herewith, copy of letter, dated 10th July 1893, No. 730, from the District Judge of Gódávari, together with a plan and estimate (and other enclosures) for the provision of ventilators for the court-house of the District Munsif of Ellore, I am directed to request that, for the reasons stated in the letter, His Excellency the Governor in Council may, under G.O., dated 18th March 1892, No. 892 W., be pleased to issue the necessary orders for the work being carried out by the Public Works Department.

ENCLOSURE.

From H. T. ROSS, Esq., District Judge, Gódávari, to the Registrar of the High Court of Judicature, Appellate Side, Madras, dated Rajahmundry, 10th July 1893, No. 730.

I have the honour to state that, on my personal inspection of the Ellore District Munsif's court-house, I found, among other things, that the Court hall was not properly ventilated. I therefore addressed the Superintending Engineer on the matter and received a reply that the Court hall would be improved by opening two large ventilators.

2. The District Munsif was thereupon asked to get the work done by contract and to charge the same under petty construction and repairs for 1893–94. As he was apprehensive of himself undertaking the work which requires some care, the Superintending Engineer was requested to prepare plans and estimates, which are herewith submitted, for the work to be carried out by that department.

3. I have accordingly the honour to request that the High Court will be pleased to obtain the orders of Government under G.O., No. 892, dated 18th March 1892, to the work being carried out by the Public Works Department, as the probable cost of it is less than Rs. 1,000.

Order—dated 15th September 1893, No. 1892, Judicial.

The necessary orders for the execution of the work by departmental agency will be issued in the Public Works Department.

2. The type design of District Munsif's Court which was circulated with G.O., dated 27th July 1887, No. 2008 W., P.W., will apparently need revision.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

ORDER—dated 2nd October 1893, No. 2509 W., Public Works.

The execution of the work by the Public Works Department is sanctioned, and the plan and estimate will be forwarded to the Superintending Engineer, I Circle, for early execution.

2. The question of altering the type design of District Munsifs' court-houses will be separately considered.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, I Circle, with four enclosures.
" Examiner, Public Works Accounts.
" Consulting Architect.
" Judicial Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 2nd.

Recd. *Encl.*

G.O., 2nd Oct. 1893, No. 2509 W.

OCTOBER.

District Munsif's Court-house at Ellore

Sanctioning the execution by the Public Works Department of certain improvements to the —, and stating that the question of altering the type design of District Munsifs' court-houses will be separately considered.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

G.O., dated 15th September 1893, No. 1891, Judicial.

Read—the following paper :—

From H. W. FOSTER, Esq., Registrar of the High Court of Judicature, Appellate Side, to the Chief Secretary to Government, dated Madras, 29th August 1893, No. 2285.

With reference to G.O., No. 900, dated 13th May 1892, inquiring whether it is necessary to provide further accommodation for the District Munsif's court, Ellore, than is furnished by the new building constructed in accordance with the type design for such courts, I am directed to say that, though there are no special circumstances rendering unusual accommodation necessary for this particular court, it appears to the Honorable the Judges that the type design itself is defective in failing to provide adequately for all the requirements of a District Munsif's court.

2. The property room is generally found to be too small, and when movable property of a bulky description is distrained it is often difficult to make arrangements for its safe custody. The gumastahs' room again (25 feet by 15 feet) is no more than sufficient for the 7 clerks who form the ordinary complement of a Munsif's ministerial establishment and does not afford reasonable space also for the copyist establishment, which consists of from three to five persons.

3. Mr. Ross suggests that the vakils' room should be appropriated for the accommodation of the copyists, and that a separate building should be provided for the vakils, for witnesses in waiting, and for the storage of attached property. The High Court is not prepared to support this proposal in its entirety, since the vakils' room is unnecessarily large for the copyists, the present property room would, under such an arrangement, be wasted, and the Government (in G.O., dated 8th December 1890, No. 1942, Judicial) has declined to provide witness-waiting rooms as a matter of course.

4. As, however, it appears necessary that more space should be provided, it seems to the High Court desirable to revise the type design in the following manner. The wing now occupied by the property and record rooms should be divided by a transverse, instead of a longitudinal, wall. The division immediately behind the Judge's dais should be 10 feet 3 inches long and would serve for the record room, for which the space now provided is somewhat too cramped; the other division would accommodate the copyist establishment and a property room could be provided by extending the wing another 16 or 18 feet. The changes suggested are shown in the accompanying sketch, the newly suggested division being indicated by dotted lines. I am to request that the Government may take into consideration the desirability of modifying the design to this extent.

5. If the Ellore court-house can now be altered and extended in conformity with this suggestion, it will not be necessary to retain the old building as an adjunct to the court; but if this is not possible, I am to say the Judges consider that the building cannot be given up without inconvenience.

ENCLOSURE.

ABSTRACT sketch showing certain modifications in the type design for a District Munsif's court.

Order—dated 15th September 1893, No. 1891, Judicial.

The Registrar's letter will be referred to the Public Works Department for favour of remarks as to the possibility and probable cost of (1) revising the type design of a District Munsif's court in the manner suggested, (2) altering the present District Munsif's court at Ellore to meet the High Court's views.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

ORDER—dated 2nd October 1893, No. 2510 W., Public Works.

Communicated to the Consulting Architect for early report as to the possibility and cost of revising the type design for District Munsifs' court-houses in the manner suggested by the High Court. On receipt of this information, the question of altering the District Munsif's court at Ellore will be considered.

2. In revising the type design, the Consulting Architect will, with reference to G.O., No. 2509 W., dated 2nd October 1893, provide for ventilating the court hall.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Consulting Architect to Government,
with enclosure.
" Superintending Engineer, I Circle.
" Judicial Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 2nd.

Recd. *Encl.*

G.O., 2nd Oct. 1893, No. 2510 W.

OCTOBER.

District Munsifs' Court-houses.

Early report called for from the Consulting Architect as to the possibility and cost of revising the type design for — in the manner suggested by the High Court, the question of altering the District Munsif's court at Ellore being considered on receipt of the report.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper:—

From the Quartermaster-General, Madras Army, to the Secretary to Government, Military Department, dated Ootacamund, 14th September 1893, No. 1710 M.W.

I am desired to bring to the notice of Government that, owing to the want of accommodation at Jalarpet for the Sergeant-Instructor of the Madras Railway Volunteers at that station, this non-commissioned officer is obliged to occupy one of the quarters in the British Infantry barracks at Bangalore. This arrangement, involving as it does his living a considerable distance away from his work and strongest company, is most unsatisfactory and the Provisional Commander-in-Chief considers such arrangement should for obvious reasons be rectified as early as possible.

2. Inquiries having been made as to how the needed accommodation could be provided for the Sergeant-Instructor at Jalarpet, it has been ascertained that there are no Government buildings available for the purpose, but that a private bungalow can be purchased and that by the expenditure of a sum of about Rs. 2,700 suitable accommodation can be secured for the non-commissioned officer in question. A copy of a preliminary report on the project (with two plans) prepared by the Executive Engineer, Military Works, is submitted for the information of Government, but, as the station referred to is one under the control of the Public Works Department, it will be requisite for that department to make the necessary arrangements for the acquisition of the property and for carrying out such alterations to the building as may be deemed desirable. A copy of a letter * from the Executive Engineer, Public Works Department, Salem Division, to the Assistant Adjutant-General, Bangalore District, on this subject is enclosed for information.

* No. 863 M. of 26th August 1893.

3. As the necessity for the early provision of these quarters will be at once apparent to Government, I am to solicit that the Public Works Department may be requested to include the project in the Class B Schedule of Works for inclusion in the Imperial Military Works budget estimate of the ensuing financial year, submitted to the Secretary to Government in that department with my letter No. 1667 M.W., of 6th instant, in order that the required funds for the same may be secured next year should there be no likelihood of an allotment being obtained earlier.

ENCLOSURES.

PRELIMINARY report on the provision of quarters for a Sergeant-Instructor of Volunteers at Jalarpet.

This report is called for by memo. No. 987 M.W., dated 1st May, from the Quartermaster-General, Madras Army, to the General Officer Commanding Bangalore District.

2. There are no Government buildings at Jalarpet available for the purpose.

3. The Officer Commanding Madras Railway Volunteers reports in letter No. 550/123 of the 20th May to the Executive Engineer, Bangalore Division, that a private bungalow of Mr. E. M. Lovett is for sale for the sum of Rs. 2,500.

4. The undersigned has inspected this bungalow. A plan of the property together with a site plan is submitted.

5. The house is well situated just outside the railway enclosure.

6. The accommodation available in this bungalow compared with that authorised is as follows:—

	Authorised.	Available.
One room	16 × 16	15·9 × 14
" "	16 × 10	12·3 × 14
" "	16 × 10	12·3 × 8
Total area in sq. ft. ...	576	490

that is a deficiency of 86 square feet.

This deficiency can be easily met by converting the rear verandah into a room.

For purposes of the above comparison, the back side room is held to be a bath room to which a sergeant, class A, is entitled. The area of this room is therefore not included above.

7. In the matter of out-houses, a cook house, a servant's house, a stable and a latrine are authorised.

It will be seen from the plan that the out-house contains the above except a stable, but has in addition a fowl house and a bath room.

By removing the party wall between the two latter, a stable is obtained.

8. There is a well in the compound, 27 feet deep, said to contain good water. At the date of inspection the well was dry. The well can be deepened and no steining is required.

9. The house is in fairly good repair. It is built with burnt bricks in mud and chunam plastered. The roof consists of flat and pan tiles on jungle wood reepers supported by jungle wood collar beam trusses. The floor is paved with square tiles.

10. The approximate value of the property is as follows:—

	RS.
Bungalow	1,901
Out-house	339
Well	70
Land	50
Compound wall and gate	160
Total ...	2,520

11. The approximate cost of constructing a new building inclusive of compensation for land would be about Rs 4,000.

12. The cost of the alterations mentioned in paragraphs 6 and 7 above would not exceed Rs. 200.

From G. E. MANSON, Esq., Executive Engineer, Salem Division, to the Assistant Adjutant-General, Bangalore District, dated 26th August 1893, No. 863.

With reference to your No. 882 B., dated 22nd August 1893, requesting to return the papers connected with the purchase of Mr. Lovett's house at Jalarpet, I have the honour to return the papers asked for. If the house proves worth purchasing there will be, I presume, no difficulty in its being bought just as the house at Yercaud was bought a year or two ago for the Sergeant-Instructor, Yercaud Volunteer Rifle, and I will have the necessary arrangements made.

No. 6257, Military.

Transferred to the Public Works Department for favour of necessary action.

Ootacamund, 21st September 1893. (Signed) H. R. HOPE, Brigdr.-Genl., Secretary to Government.

ORDER—dated 3rd October 1893, No. 2511 W., Public Works.

The Executive Engineer, Salem Division, will be directed to frame a detailed valuation estimate of the building in question and add the cost of adapting it for quarters for the Sergeant-Instructor. A sum of Rs. 2,700 will, if possible, be provided in the Military Works Budget for 1894–95.

2. It is observed that the price at which the house can be purchased is put down at Rs. 2,500.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle, with two plans.
„ Military Department.

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 3rd.

Recd. *Encl.*

G.O., 3rd Oct. 1893, No. 2511 W.

OCTOBER.

Mr. Lovett's House at Jalarpet

Directing the preparation of a detailed valuation estimate of — adding to the same the cost of adapting it for quarters for the Sergeant-Instructor of the Madras Railway Volunteers at that station.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Inspector-General of Registration, dated Ootacamund, 25th August 1893, No. 343 M.

With reference to your letter No. 998, dated 9th April 1892, I have the honour to forward, for your approval and transmission to Government for sanction, a fresh plan and estimate, amounting to Rs. 3,930, for constructing a Sub-Registrar's office at Andathode in Ponnáni taluk, Malabar district.

2. The estimate is based on the standard design approved of in G.O., No. 1320 W., dated 13th May 1891, with slight alterations as detailed in the report to suit the locality.

3. The building is now proposed to be erected on the site alluded to in your letter quoted above, and a lump sum of Rs. 172 for payment of compensation for land has been provided in the estimate.

G. No. 4180.

Submitted for the sanction of Government with reference to G.O., dated 22nd April 1892, No. 771, Judicial.

MADRAS, 1st Sept. 1893. (Signed) S. SRINIVASA RAGHAVAIYANGAR, Inspector-General of Registration.

To the Chief Secretary to Government.

No. 1618, Judicial.

Approved and transferred to the Public Works Department.

(By Order.)

OOTACAMUND, 13th September 1893. (Signed) A. BUTTERWORTH, Under Secretary.

ORDER—dated 4th October 1893, No. 2513 W., Public Works.

The estimate, amounting to Rs. 3,930, for constructing a Sub-Registrar's office at Andathode in the Malabar district, is sanctioned for execution when funds are available.

2. This sanction has been registered as Provincial No. 93 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle, with plans and estimate (7).
,, Examiner, Public Works Accounts.
,, Judicial Department.
Editors' Table.

1

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 4th.

Recd. *Encl.*

G.O., 4th Oct. 1893, No. 2513 W.

OCTOBER.

Sub-Registrar's office at Andathode

Estimate of Rs. 3,930 for constructing a — in Malabar district, sanctioned for execution when funds are available.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From Colonel A. T. FRASER, R.E., Superintending Engineer, III Circle, to the Chief Engineer, Public Works Department, dated Bellary, 8th August 1893, No. 1218.

With reference to G.O., No. 906 W., dated 6th April 1893, I have the honour to forward, for sanction and allotment, an estimate for the *Police Assistant Superintendent's residence, Nandyal*, revised to Rs. 6,970 which will complete the building.

2. The previous expenditure under the original estimate sanctioned in G.O., No. 2463 W., dated 5th September 1889, for Rs. 5,752 has been Rs. 6,211, and the following new items of work are being done under G.O., No. 906, viz. :—

		RS.
Coir matting	... ...	53
Mangalore tiling, main roof only	... ...	504
Drainage	... ...	202
	Total ...	759

3. As the building has been long occupied and the tiles on the verandah exposed to high winds, breakage, &c., their turning and renewing, a small sum of Rs. 163 is being met as an ordinary repair.

4. Also a supplemental estimate Rs. 255, making the amount of Rs. 1,623 originally sanctioned (G.O., No. 851, dated 21st March 1889) for the *Police Assistant Superintendent's office, Nandyal*, Rs. 1,878.

5. Finally, a supplemental estimate of Rs. 520 for *completing and draining the Police Hospital*, the original estimate Rs. 2,494 having been sanctioned in G.O., No. 3632 W., dated 20th December 1889.

6. These estimates provide all necessary to enable the buildings to be handed over.

ORDER—dated 4th October 1893, No. 2523 W., Public Works.

The undermentioned estimates for police buildings at Nandyal in the Kurnool district are sanctioned :—

	Civil Buildings. Original Works.
1. Residence for the Assistant Superintendent of Police (in supersession of the estimate of Rs. 5,752 sanctioned in G.O., No. 2463 W., dated 5th September 1889)	Rs. 6,970, Provincial No. 91 W. of 1893–94.
2. Completing and draining the Police Hospital (as supplemental to the estimate of Rs. 2,494 sanctioned by the Superintending Engineer).	Rs. 520 „ No. 92 W. of „

2. The allotments required to complete the abovementioned works will be made later in the year. Meanwhile, the Superintending Engineer is authorised to proceed with the works.

3. The supplemental estimate of Rs. 255 for constructing an office for the Assistant Superintendent of Police at Nandyal is returned to the Superintending Engineer, III Circle, for sanction and early execution. No appropriation of funds is necessary under paragraph 59, Chapter XIV of the Public Works Code.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W. D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, III Circle,
with plan and estimates (11 enclosures).
„ Examiner, Public Works Accounts.
„ Judicial Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 4th.

Recd. *Encl.*

G.O., 4th Oct. 1893, No. 2523 W.

OCTOBER.

Police Buildings at Nandyal

Estimates for certain — in Kurnool district, sanctioned, and the supplemental estimate for constructing an office for the Assistant Superintendent of Police in the same station, returned to the Superintending Engineer, III Circle, for sanction and early execution.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From F. D'A. O. WOLFE-MURRAY, Esq., Acting Collector of Nilgiris, to the Chief Secretary to Government, dated Ootacamund, 31st July 1893, No. 90 Gt.

I have the honour to report, for the information of Government, certain peculiar action on the part of the Public Works Department, which, besides being of a very unsightly and insanitary nature, appears to me to be opposed to G.O., No. 136 W., dated 18th January 1886.

2. This Government Order refers to the conservancy of the margin of the Ootacamund lake. I would specially refer to paragraph 4 of the Government Order in question, which says, "The whole of the open ground on the lake margin will be placed under the Director of Government Parks and Gardens in view to its being laid out as suggested by the Chief Engineer."

3. The suggestions of the Chief Engineer are attached to the Government Order in question. He says, "This land (the lake margin) is for the most part cultivated as vegetable gardens, which cultivation in itself is by no means conducive to the proper conservancy of the water . . . . I would propose that the entire lake margin be kept under Government control and that it be laid out as a park with groups of trees and shrubs dotted over it. It will then become, what it should be, the most beautiful feature in this mountain settlement."

4. The present staff of the Public Works Department, so far from carrying out this Government Order, have lately cleared a portion of the land specially acquired in accordance with the above suggestions and purpose to do precisely what the Chief Engineer considered should not be done, viz., turn it into a vegetable garden and grow potatoes thereon.

5. Yesterday I passed the land and thereon I saw heaps of stinking stable manure. I need hardly say I, as soon as I found out what was occurring, addressed the Executive Engineer and the Director of Public Parks, &c.

6. Nevertheless, I deem it my duty also to bring the facts to the notice of Government; for it is quite possible that had I been out in the district this extraordinary act of vandalism and disregard of Government Orders might have passed unnoticed and the now loose soil would have been heavily poisoned with manure in the middle of the rainy season, when it must infallibly have been washed into the lake, to say nothing of the unsightly nature of a potatoe garden in that particular locality just opposite to boat-house.

No. 547, Local and Municipal.

Transferred to the Public Works Department.

(Signed) A. T. PRINGLE,
Assistant Secretary.

FORT ST. GEORGE,
17th August 1893.

No. 2925 C.

Referred to the Superintending Engineer, IV Circle, for early explanation.

(Signed) O. V. BODDY, Major, R.E.,
Under Secy. to Govt., P.W.D.

23rd August 1893.

From W. C. LEWIS, Esq., Executive Engineer, Coimbatore division, to the Superintending Engineer, IV Circle, dated Coimbatore, 28th August 1893, No. 3243.

With reference to your endorsement No. 418 C.I. of the 25th instant, I have the honour to report that the action to which the Collector of the Nilgiris has misapplied the term "vandalism" consists in an attempt to clear the unsightly and rapidly increasing wattle jungle on the west side of the lake with a view to lay the ground out properly. All previous efforts at keeping the wattle down by cutting seem to have had no effect, and it is necessary to eradicate it by digging out the roots, and to ensure a second digging I ordered potatoes to be planted. The manure was put without my knowledge and was removed at once on the Collector's representation.

2. As regards the carrying out of paragraph 4 of the Government Order referred to, it was never communicated to the Director of Parks, &c., and he has never assumed charge of the lake margin; since the Collector has brought to my notice the Government Order under reference, I have been in correspondence with the Director of Parks on the subjects and this will be the subject of a separate report.

3. While on the subject of the insanitary condition of the lake, I may remark on the utter futility of any attempts to keep the water pure by stopping cultivation along the margin while the whole storm drainage of Ootacamund discharges into it above the Willow bund. It is from above that bund that the impurities come into the water, and I do not see how it can be prevented.

No. 335 E.W.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement No. 2925 C., dated 23rd August 1893, herewith returned. The undersigned agrees with the Executive Engineer and considers that it is quite impossible to keep the lake water pure as long as the drainage of a great part of Ootacamund is allowed to discharge into the lake.

(Signed) A. W. SMART, Major, R.E.,
Superintending Engineer, IV Circle.

31st August 1893.

ORDER—dated 6th October 1893, No. 2538 W., Public Works.

The permanent eradication of wattle can only be effected by digging it up by the roots. Cutting it down is useless as it quickly springs up again. The action of the Executive Engineer in this respect is approved. But the planting of potatoes on the lake margin is totally opposed to existing orders, and such planting should under no circumstances be permitted.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle.
" Revenue Department.
" Local and Municipal Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 6th.

Recd. *Encl.*

G.O., 6th Oct. 1893, No. 2538 W.

OCTOBER.

Ootacamund Lake

The action of the Executive Engineer, Coimbatore Division, as regards the permanent eradication of jungle wattle on the margin of the —, approved, but the planting of potatoes thereon prohibited.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From W. C. LEWIS, Esq., Executive Engineer, Coimbatore division, to the Superintending Engineer, IV Circle, dated Coimbatore, 31st August 1893, No. 3254 S.E.

In forwarding herewith copies of the enclosed correspondence, I have the honour to inquire if it would not be as well to give a definite budget allotment to the Government Botanist for the upkeep of these grounds, say Rs. 1,000 per annum, from Miscellaneous Public Improvements.

2. The arguments in favour of this course are much increased by the fact that there is now only a subordinate of this department resident at Ootacamund.

ENCLOSURES.

From M. A. LAWSON, Esq., Government Botanist and Director of Government Cinchona Plantations, &c., Nilgiris, to the Executive Engineer, Public Works Department, Nilgiris, dated Ootacamund, 31st January 1890, No. 395.

With reference to your letter No. 3622, dated the 22nd January 1890, I have the honour to inform you that I have to-day been over all the plantings which have been recently made around the lake and on Mountstuart Hill, and I have also estimated the amount of money which will be required to keep the plantings in good order during the remaining two months of the present year and during the next year.

2. I have also estimated what the cost would be of clearing the weeds and thinning the trees and shrubs around the margin of the lake.

3. I shall be very willing to undertake the maintenance of the present plantings and the clearance around the lake if the funds I ask for are placed at my disposal; but I would not undertake to keep up the fence, nor would I be willing to saddle myself with any duties connected with the prosecution of persons allowing their cattle to trespass within the place.

4. The following is my estimate for the two remaining months of the present year and for the whole of the next year.

	RS.
(a) For the present year—	
Three men for watering, ferning, &c., at Rs. 8 each	48
Watering cans, forks and collection of ferns	25
	73
(b) For the next year—	
Three men for general maintenance at Rs. 8 each	288
For tools	25
	313
Total ...	386

(c) For clearing around the lake, Rs. 500; but the greater part, if not the whole of this, ought to be recovered through the sale of wood and of brushwood.

(d) A night watcher to take up cattle trespassing is absolutely indispensable and should be put on duty immediately, as many of the young trees have been already destroyed and the most stringent measures should be adopted to put an end to this most abominable nuisance.

5. As the young trees are now suffering from want of attention, I shall be obliged if you will communicate to me your decision in the matter as soon as possible.

From the same officer, dated 25th August 1893, No. 439.

With reference to your letter, dated the 21st August 1893, No. 3138, I have the honour to say that I know nothing of G.O. No. 136 of 18th January 1886. It has never been communicated to this office.

2. I should be willing to take over charge of the grounds surrounding the margin of the lake if some guarantee is given that all those conditions which I stipulated for in my letter No. 395 of 31st January 1890 shall be rigidly carried out; but, unless some guarantee is given to that effect, I will refuse absolutely to have anything more to do with the ground in question.

No. 339, E.W.

Copy communicated to the Chief Engineer, Public Works Department, in continuation of this office endorsement No. 335 E.W., dated 31st ultimo.

2. Orders are requested as to whether the Ootacamund lake margin is to remain in our charge or is to be transferred to the charge of the Government Botanist and Director.

(Signed) A. W. SMART, Major, R.E.,
Superintending Engineer, IV Circle.

2nd September 1893.

From F. D'A. O. WOLFE-MURRAY, Esq., Acting Collector of Nilgiris, to the Chief Secretary to Government, dated Ootacamund, 30th August 1893, No. 96 Gt.

I have the honour to forward copy of letter No. 375 of 23rd August 1893 from the Director of Public Parks and Gardens.

2. Therein he states that he has nothing to do with the conservancy and planting of the margin of the Ootacamund lake and that he knows nothing of G.O., No. 136, dated 18th January 1886, which directs that he have control of the lake margin jointly with the Public Works Department.

3. I think it necessary to bring this fact to the knowledge of Government in view of my letter No. 90 (Government), dated 31st July 1893, reporting the action of the Public Works Department authorities on the said lake margin, and in view also of the fact that I am not aware that the said Government Order has been cancelled and presuming that the order in question was meant to be carried out.

ENCLOSURE.

From M. A. LAWSON, Esq., Government Botanist and Director of Government Cinchona Plantations, &c., Nilgiris, to the Collector of the Nilgiris, dated Ootacamund, 23rd August 1893, No. 375.

With reference to the copy of your letter No. 3462, dated 28th July 1893, to the Executive Engineer, Coimbatore, which you have sent me, I would say that I fully concur in thinking that the condition of the margin of the lake is anything but creditable.

2. I know nothing of G.O., No. 136 W., dated 18th January 1886; it has never been communicated to me, nor, so far as I am aware of, do I possess any joint control with the Public Works Department over the land in question.

3. On several occasions I have been asked to plant up portions of land under the management of the above-mentioned department; and this I have always done, and done gladly, but only on the condition that that department should protect the young plants from the ravages of trespassing cattle; this condition was never complied with, and therefore, for my own credit and for the credit of the Botanical Department, I was obliged, in a letter to the Executive Engineer, Coimbatore, to refuse to have anything more to do with the planting of trees or shrubs around the lake or elsewhere.

No. 637, Local and Municipal.

Transferred to the Public Works Department in continuation of endorsement No. 547, dated 17th August 1893.

FORT ST. GEORGE,
13th September 1893.

(Signed) A. T. PRINGLE,
Assistant Secretary.

ORDER—dated 6th October 1893, No. 2539 W., Public Works.

His Excellency the Governor in Council is of opinion that the conservancy of the Ootacamund lake and its margin should be vested in the Municipality. The areas in question will accordingly be transferred to the Municipal Council if they are willing to take charge of them, and a grant from Provincial funds of Rs. 500 for initial clearances and Rs. 500 per annum for the upkeep of the slopes and banks in decent order will be made under orders in the Financial Department.

2. His Excellency the Governor in Council desires that the Chairman of the Municipal Council will consult the Director of Public Parks and Gardens on the horticultural questions which may arise, and hopes that Mr. Lawson will afford the Chairman all requisite advice and assistance.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Local and Municipal Department.
" Revenue Department.
" Financial "

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 6th.

Recd. *Encl.*

G.O., 6th Oct. 1893, No. 2539 W.

OCTOBER.

Ootacamund Lake

Orders relative to the conservancy of the — and its margin by the Municipality.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From C. H. T. NORFOR, Esq., Executive Engineer, Trichinopoly Division, to the Superintending Engineer, VI Circle, dated 24th September 1893, No. 334 S.E.

I have the honour to inform you that the hospital, latrine and kitchen forming part of the old taluk cutcherry buildings at Perambalúr are reported to be in a dilapidated condition and that the Collector of Trichinopoly proposes to demolish them and utilize the wood work and tiles in the construction of a ryots' shed.

2. As the buildings in question are not at present used by any department and as they are in a very bad state of repair, I think it is not worthwhile to maintain them. I request therefore that, under chapter XI, paragraph 20 of the Government of India Public Works Code, necessary sanction of Government for the dismantlement of the buildings under reference may be obtained.

3. On the receipt of sanction in this office, the Collector will be asked to demolish the buildings and use the materials as proposed.

No. 904 T.C.

Copy submitted to the Chief Engineer, Public Works Department, with a request that, under the circumstances stated, sanction of Government be obtained to the demolition of the buildings in question.

2. The hospital, kitchen and latrine are borne in the return of buildings as Nos. $\frac{1}{7}$, $\frac{1}{2}$ and $\frac{1}{3}$, with value of Rs. 470, 170 and 90, respectively, under Provincial, Perambalúr taluk, Trichinopoly division.

TRICHINOPOLY,
26th September 1893.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, VI Circle.

ORDER—dated 6th October 1893, No. 2541 W., Public Works.

The demolition of the buildings is sanctioned.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, VI Circle.
" Examiner, Public Works Accounts.
" Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 6th.

Recd. *Encl.*

G.O., 6th Oct. 1893, No. 2541 W.

OCTOBER.

Taluk Cutcherry Buildings at Perambalur

The demolition of the hospital, latrine and kitchen forming part of the old — in the Trichinopoly district, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

G.O., dated 18th September 1893, No. 920, Financial.

Read—File of reports regarding inventory of valuable stock for 1892–93.

Order—dated 18th September 1893, No. 920, Financial.

Prior to the issue of the Government of India Resolution recorded in G.O., dated 1st October 1886, No. 1007, civil officers were required to submit for check to the Accountant-General returns of valuable ordnance and other stores and moveable property in their custody. The Comptroller and Auditor General having represented that the necessary check on the returns was of an administrative nature and such as could not be carried out by the account officers, the Government of India directed that local Governments should issue orders to secure the submission of these returns in the Civil department to the proper administrative officers and the necessary check by the administrative officers. Heads of departments were accordingly instructed in the order quoted above to arrange for the submission of the returns in the form and on the lines suggested by the Accountant-General, who was consulted by Government on the point.

2. Subsequently, in July 1887, these instructions were cancelled and heads of departments were held responsible for obtaining returns from, and for checking the valuable stock of, their subordinates; while in respect to the stock actually in their own custody, it was considered sufficient if they submitted yearly to Government in the department concerned a report that an inventory of valuable stock had been kept and duly checked for the previous official year. Lists were published showing the administrative officers submitting reports to Government and the subordinate officers furnishing returns to administrative officers.

G.O., dated 22nd July 1887, No. 843.

3. His Excellency the Governor in Council considers that the necessary check might still be maintained by the adoption of a plan similar to that prescribed in regard to service books in G.O., dated 22nd February 1886, No. 396, Public. The returns now furnished to Government in accordance with paragraph 2 of G.O., dated 22nd July 1887, No. 843, will accordingly be discontinued and the officers mentioned in the annexed list who submit administration reports to Government will in future state in such reports whether the instructions relating to the maintenance of an inventory of valuable stock have been carried out in their own and subordinate offices; those officers who do not submit administration reports will be held responsible for seeing that the necessary inventory is maintained and duly checked.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

ANNEXURE.

Officers furnishing Administration Reports to Government.

Name of Officer.	Name of report in which the information required in paragraph 3 of the foregoing order should be furnished.
* * * * *	* * * * *
Secretary to Government, Public Works Department.	Annual reports for Presidency administration report.
* * * *	* * * *

ORDER—dated 6th October 1893, No. 2544 W., Public Works.

Communicated to officers of the Public Works Department.

2. Under G.O., No. 1546 W., dated 10th June 1889, all officers of the Public Works Department are required to submit half-yearly to the Examiner a return of tools and plant and office furniture under their charge. The Examiner will, by 31st May in each year, report to the Chief Engineer, for inclusion in the administration report, whether the returns for the previous official year have been correctly rendered and whether a list for his own office has been duly maintained.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Chief Engineer for Irrigation.
,, the Consulting Engineer for Railways.
,, Superintending Engineers.
,, the Consulting Architect to Government.
,, the Superintendent of Works, Periyár Project.
,, the Examiner, Public Works Accounts.
,, the Examiner, Railway Accounts.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 6th.

Recd. *Encl.*

G.O., 6th Oct. 1893, No. 2544 W.

OCTOBER.

Inventory of valuable Stock

Proceedings, Financial Department, directing the discontinuance of the returns of —; and requesting certain officers to state, in their administration reports, whether the instructions relating to the maintenance of the inventory have been carried out in their own and subordinate offices, communicated to officers of the department with instructions.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper :—

G.O., dated 4th September 1893, No. 641, Educational.

Read—the following paper :—

From the Director of Public Instruction, dated 22nd August 1893, No. 9570.

Abstract.—Submitting for sanction a revised estimate for Rs. 7,625 for constructing a building for the Muhammadan Branch Training school, Triplicane.

Order—dated 4th September 1893, No. 641, Educational.

The revised estimate, amounting to Rs. 7,625, is approved and will be transferred to the Public Works Department with reference to G.O., dated 26th February 1892, No. 638 W.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

Order—dated 7th October 1893, No. 2545 W., Public Works.

The revised estimate, amounting to Rs. 7,625, for constructing a Muhammadan Branch Normal school at Triplicane, is sanctioned in supersession of the estimate of Rs. 6,640 sanctioned in G.O., No. 638 W., dated 26th February 1892.

2. The expenditure on the work to the end of 1892–93 was Rs. 5,186 and the current year's grant is Rs. 1,454. The Consulting Architect will apply later in the year for any additional allotment that may be required.

3. This sanction has been registered as Provincial No. 95 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Consulting Architect to Government, with estimate (3).
" Examiner, Public Works Accounts.
" Educational Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 7th.

Recd. *Encl.*

G.O., 7th Oct. 1893, No. 2545 W.

OCTOBER.

Muhammadan Branch Normal School at Triplicane

Revised estimate of Rs. 7,625 for constructing a —, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From J. P. DAVIDSON, Esq., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 6th September 1893, No. 312 W.

I have the honour to submit, for sanction of Government, a revised estimate, in the form of comparative statement, amounting to Rs. 41,920, with accompaniments as per margin, for constructing Taluk office at Chidambaram. The original estimate of Rs. 40,080 was sanctioned in G.O., No. 3015 W., dated 2nd November 1892.

1 plan showing new taluk cutcherry with old sub-jail and out-houses.
1 plan of existing jail.
2 price lists.
2 data sheets.
1 copy of letter.
1 comparative statement showing increased cost of labour and materials.
1 memorandum of alterations and additions included in revised estimate.
1 abstract estimate for sub-jail.

2. The revision of the original estimate is due partly to alterations which were arranged for by me while in charge of the South Arcot division in communication with the Collector of South Arcot and partly to alteration in rates.

3. In the revised estimate it is proposed to retain the existing sub-jail buildings. The tracing plan which accompanies this letter shows what is now proposed—

(1) The existing sub-jail will be retained, necessary improvements to the roof, &c., being carried out and a covered way between the sub-jail and new Taluk office constructed.

(2) The existing enclosure wall of old Taluk office X, Y, Z will be dismantled from X to Y and a cross wall built from Y (shown in red) to separate sub-jail from old Taluk office.

(3) A new cook room will be built as shown, the existing latrine will be retained, but the patients' room and cook room will be demolished.

(4) A rectangular portion of land A, D, C, B will be taken up in order to make the site more shapely and also to allow of communication between the Taluk office and the District Munsif's Court compounds; the main latrine, ryots' shed, &c., are all in the latter compound.

(5) Fencing is allowed in front and rear of the building to properly enclose the site.

4. A copy of the Executive Engineer's letter, No. 505, dated 18th August 1893, explaining the principal items of difference between the original and revised estimates, is also forwarded for information.

Note by the Chief Engineer, Public Works Department.

In the revised estimate for a Taluk office at Chidambaram, provision has been made for a ryots' shed. Sheds of this class are not ordinarily admissible—*vide* paragraph 2 of G.O., No. 1409 W., dated 28th May 1889. Nor has the Superintending Engineer explained why it is necessary to construct a shed at Chidambaram. This item may therefore be omitted.

2. "Scaffolding" has been estimated for as a separate item. This is opposed to paragraph 28, section 1, chapter XII of the standard specifications.

3. The provision made in the estimate for tables and benches is inadmissible under paragraph 4, chapter XI, volume I of the Public Works Code, unless the supply of such furniture is specially ordered by Government. The Superintending Engineer has apparently overlooked paragraph 3 of the Chief Engineer's note printed in G.O., No. 3015 W., dated 2nd November 1892.

4. It has been proposed to roof the existing sub-jail with Mangalore tiles, but there is no provision for ceiling which seems necessary.

(Signed) J. HANNAN,
Ag. Chief Engineer, P.W.D.

29th September 1893.

ORDER—dated 7th October 1893, No. 2546 W., Public Works.

The revised estimate for constructing a first-class Taluk office at Chidambaram in the South Arcot district has been reduced from Rs. 41,920 to Rs. 40,745 by omitting the provision for a ryots' shed and for tables and benches. The estimate, as thus reduced, is sanctioned in supersession of the estimate of Rs. 40,080 sanctioned in G.O., No. 3015 W., dated 2nd November 1892.

2. The attention of the Superintending Engineer, V Circle, is drawn to the note by the Chief Engineer recorded above.

3. The expenditure on the work to the end of 1892–93 was Rs. 12,171 and the current year's grant is Rs. 10,000.

4. The sanction accorded in paragraph 1 has been registered as Provincial No. 94 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy., to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, V Circle,
with plans and estimate (11).
„ Examiner, Public Works Accounts.
„ Revenue Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 7th.

Recd. *Encl.*

G.O., 7th Oct. 1893, No. 2546 W.

OCTOBER.

Taluk Office at Chidambaram

Revised estimate of Rs. 40,745 for constructing a first-class — in South Arcot district, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 18th August 1893, No. 326 E.W.

Adverting to paragraph 2 of G.O., No. 1185 W., dated 1st May 1893, I have the honour to submit, for sanction of Government, a plan and an estimate, amounting to Rs. 42,500, for constructing a suspension bridge of 200 feet span with 10 feet roadway across the Kullar river on the Méttupálaiyam-Coonoor road calculated to carry a live load of 120 lb. per square foot.

2. Messrs. Burn and Co., Calcutta, have furnished plans of masonry towers and anchorage which are herewith forwarded for information. A few alterations on the masonry are thought necessary, such as the strengthening of the anchorages and the building of the inner faces of the tower piers vertical instead of on steps.

3. Orders were given to Messrs. Burn and Co. in this office No. 204 M., dated 26th May 1893, to put the iron work in hand.

4. Data for various rates given in the estimate are enclosed.

5. The depth of foundations of the towers is to be 15 feet, provided rock is not reached before. The foundations of the wings are to be 6 feet deep; it is not thought necessary to take these down to the full depth allowed for the towers.

6. Materials to be used—

Foundations.—Stone surki concrete encased by rubble masonry.

Superstructure.—Table moulded brick in mortar with cut stone string courses, &c.

7. If the plan and estimate meet with your approval, a specification will be drawn up of the several kinds of work to be done.

Note by the Chief Engineer, Public Works Department.

The soil in foundation consists of boulders embedded in clay. It is not known to what depth this foundation goes. This can only be ascertained by actual excavation. Foundation pits for towers have up to the present been excavated to a depth of 5 feet below deep bed of river. The Superintending Engineer has allowed for taking the foundations to a depth of 15 feet below deep bed of river and the towers will be so founded unless the natural formation underlying boulders is met with it at a higher level. I consider that this will be perfectly safe. The bridge is designed to carry a live load of 120 lb. on every square foot of road surface. The total height of towers to carry the suspension bridge is 49½ feet above river bed.

(Signed) J. HANNAN,
Ag. Chief Engineer, P.W.D.

22nd September 1893.

ORDER—dated 7th October 1893, No. 2548 W., Public Works.

The estimate, amounting to Rs. 42,500, for constructing a suspension bridge across the Kullar river on the Méttupálaiyam-Coonoor road is sanctioned.

2. The work has been put in hand in anticipation of an allotment of funds which will be made shortly. Meanwhile the bills for iron work should be paid.

3. This sanction has been registered as Provincial No. 96 W. of 1893-94 and classified as Communications, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle,
with plans and estimate (8).
,, Examiner, Public Works Accounts.
,, Local and Municipal Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 7th.

Recd. *Encl.*

G.O., 7th Oct. 1893, No. 2548 W.

OCTOBER.

. Suspension Bridge

Estimate of Rs. 42,500 for constructing a — across the Kullar river on the Méttupálaiyam-Coonoor road, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From W. C. LEWIS, Esq., Executive Engineer, Coimbatore division, to the Superintending Engineer, IV Circle, dated Coimbatore, 25th September 1893, No. 3602.

With reference to your No. 464 of the 20th instant, I have the honour to report that the shoot at chains 202·207 of railway has been erected by the Railway Company at the upper place at Kurumbadi ravine. I have made use of some old iron from the Kullar bridge to replace the old road culvert of 3 feet square by a new one of 8 feet square water-way which will, I hope, avoid any block here. At the lower of the two places, nothing has been done yet. The shoots were not to be erected by this department but by the railway and debited to Imperial funds.

No. 377 E.W.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement No. 3114 C., dated 18th September 1893, herewith returned.

(Signed) A. W. SMART, Lieut-Col., R.E.,
Suptg. Engineer, IV Circle.

27th September 1893.

ORDER—dated 10th October 1893, No. 2559 W., Public Works.

His Excellency the Governor in Council considers that these shoots should be constructed by the Railway Company, the cost being met from Imperial funds.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Consulting Engineer for Railways.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 10th.

Recd. *Encl.*

G.O., 10th Oct. 1893, No. 2559 W.

OCTOBER.

Shoots on the Coonoor Ghat Road

Directing that the — ordered in G.O., No. 1185 W., dated 1st May 1893, should be constructed by the Railway Company, the cost being met from Imperial funds.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 25th August 1893, No. 330 E.W.

I have the honour to submit, for sanction of Government, plans and estimate, amounting to Rs. 7,150, for constructing quarters with out-houses for head bandsmen at Government House, Ootacamund.

2. It is proposed to charge the cost of these buildings against the available balance of Rs. 13,648 under the sub-head "Finishing the exterior of the main building," item No. 23 of the general estimate—*vide* G.O., No. 2384 W., dated 29th August 1889.

3. The Executive Engineer reports that the work will be so carried out that only half the payment will be made in the current official year and the remainder in 1894–95.

From Major the Hon'ble R. T. LAWLEY, Military Secretary to the Right Honorable the Governor, to the Secretary to Government, Public Works Department, dated Ootacamund, 23rd September 1893, No. 182.

With reference to your memorandum No. 892 D., dated 22nd September 1893, I have the honour to inform that—

(1) (*a*) The military pay of a bandmaster sergeant, irrespective of family pay and allowances, is Rs. 50 per mensem.

(*b*) The military pay of a senior bandsman, irrespective of family pay and allowances, is Rs. 35 per mensem.

(2) (*a*) The scale of accommodation for a bandmaster sergeant is in accordance with the scale laid down for sergeant, class A, appendix C, section I of the Public Works Department Code, Madras.

(*b*) No scale is prescribed for a senior bandsman.

(3) No rent will be charged.

(4) The bandmaster sergeant and senior band sergeant are at present housed in the ordinary married men's quarters. These are very small and are only four in number, and as almost all the senior men in the band are married, some have every year to leave their wives and families in Madras thereby entailing considerable privation.

ORDER—dated 10th October 1893, No. 2561 W., Public Works.

His Excellency the Governor in Council observes that the accommodation proposed is largely in excess of that prescribed for the corresponding grade of staff sergeant and that the building is not well designed.

2. The plans and estimates will accordingly be returned to the Superintending Engineer, IV Circle, for revision. The scale of accommodation should be that for sergeants, class A, at hill stations—*vide* appendix C, section I of the late Madras Code.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle, with enclosures.
„ Military Secretary to His Excellency the Governor.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 10th.

Recd. *Encl.*

G.O., 10th Oct. 1893, No. 2561 W.

OCTOBER.

Quarters

Plans and estimates for constructing — for head bandsmen of His Excellency the Governor's Band at Government House, Ootacamund, returned to the Superintending Engineer, IV Circle, for revision, the scale of accommodation to be provided being that prescribed for sergeants, class A, at hill stations.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

G.O., dated 26th September 1893, No. 1978, Judicial.

Read—the following extract from the Proceedings of the Government of India in the Home Department (Jails), under date Simla, the 6th September 1893, No. 12 Jails—500-509 :—

Read again—

Home Department Resolution No. $\frac{85}{1438-1500}$, dated 18th December 1867.

Financial Department Resolution No. 3276, dated 24th December 1867.
Financial Department Resolution No. 1821, dated 31st March 1871.

Home Department $\frac{\text{letter}}{\text{endorsement}}$, No. $\frac{2212}{2214-22}$, dated 12th December 1872.

Read also—
Letter from the Government of the Punjab, No. 139, dated the 12th April last.

Resolution.—In the letter from the Government of the Punjab cited in the preamble, His Honour the Lieutenant-Governor recommends that a general rule should be prescribed that all Superintendents and Deputy Superintendents of Central Jails should be entitled to free quarters or to house-rent when no Government buildings are available for their accommodation.

2. The question of rent-free quarters for Superintendents of Central Jails was dealt with in the orders of the Government of India noted above.

3. In the Resolution of 31st March 1871 it was determined that the question of free quarters for Superintendents who were not Medical officers should be decided according to the spirit of the rule laid down for Medical officers in the orders of the Government of India in the Financial Department, No. 3276, dated 24th December 1867 (republishing Home Department Resolution No. $\frac{85}{1488-1500}$, dated 18th December 1867), and that accordingly, whenever quarters at or near a jail were available and the Superintendent, who was not a Medical officer, was obliged to occupy them, he should be allowed to do so rent free ; but that this ruling should not involve a right on the part of the Superintendent to compensation when free quarters were not available.

4. The orders of the 12th December 1872 decided a question raised by the Government of Bengal whether Superintendents of Central Jails who were not Medical officers were debarred from claiming house-rent when free quarters were not available. It was laid down by the Governor-General in Council that when house accommodation was not available for these officers, house-rent might be paid by Government, but that this allowance should not be given to a non-medical officer temporarily placed in charge of a jail for a few weeks who did not quit his own previous abode to reside nearer the jail.

5. As regards the question of the provision of rent-free quarters for Deputy Superintendents, the Jail Committee in paragraph 9 of chapter VI of their report recommended that for all Central Jails in which one special industry was carried on there should be a skilled manufacturer, to be styled the Deputy Superintendent, qualified to superintend the factory department in all its branches, and that besides being in charge of the manufactures and being responsible for the remunerative employment of the prisoners and the safe keeping of the stores, &c., he should make himself acquainted

with the character and industry of every prisoner working under him and should assist the Superintendent in the allotting of marks and the granting of rewards for good work. For the proper performance of these duties it was considered essential that this officer should be provided with quarters near the jail.

6. On a full consideration of the matter, the Governor-General in Council has decided that all Superintendents and Deputy Superintendents who live in buildings attached to the jail or in quarters specially provided close to the jail should be exempted from the liability to pay rent, and that where quarters do not at present exist for these officers they should be constructed by Government gradually as funds are available. His Excellency in Council is, however, of opinion that the grant of house-rent, when quarters are not provided for these officers, stands on a somewhat different footing, and that it should in future be contingent on the Superintendent or Deputy Superintendent providing himself with a residence within a distance convenient for the purpose of his duties at the jail and approved by the Inspector-General of Jails of the Province. This condition will apply to the case of all Superintendents and Deputy Superintendents of existing Central Jails, but in any case in which this condition is not fulfilled and house-rent has actually been granted under the previous orders, it will be open to the Local Government or Administration to continue the allowance for a reasonable time sufficient to enable the Superintendent or Deputy Superintendent to move to a residence so approved.

Order.—Ordered that a copy of the Resolution be forwarded to the * for information and guidance, and that a copy, with copy of the letter from the Punjab Government, No. 139, dated the 12th April last, be forwarded to the Department of Finance and Commerce for information.

* Government of Madras.
Government of Bombay.
Government of Bengal.
Government of the North-Western Provinces and Oudh.
Government of the Punjab with reference to the letter from that Government, No. 139, dated the 12th April last.
Chief Commissioner of the Central Provinces.
Chief Commissioner of Burma.
Resident at Hyderabad.

(True Extract.)

(Signed) C. J. LYALL,
Secy. to the Govt. of India.

Order—dated 26th September 1893, No. 1978, Judicial.

Communicated to the Inspector-General of Jails and to the Public Works Department for information and guidance.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

ORDER—dated 10th October 1893, No. 2562 W., Public Works.

Communicated to officers of the Public Works Department.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
" the Consulting Architect to Government.
" the Examiner, Public Works Accounts.

with the character and industry of every prisoner working under him and should assist the Superintendent in the allotting of marks and the granting of rewards for good work. For the proper performance of these duties it was considered essential that this officer should be provided with quarters near the jail.

6. On a full consideration of the matter, the Governor General in Council has decided that all Superintendents and Deputy Superintendents who live in buildings attached to the jail, or in quarters specially provided close to the jail should be exempted from the liability to pay rent, and that where quarters do not at present exist for these officers they should be constructed by Government gradually as funds are available. His Excellency in Council is, however, of opinion that the grant of house-rent, when quarters are not provided for these officers, stands on a somewhat different footing, and that it should in future be contingent on the Superintendent or Deputy Superintendent providing himself with a residence within a distance convenient for the purpose of his duties at the jail and approved by the Inspector-General of Jails of the Province. This condition will apply to the case of all Superintendents and Deputy Superintendents of existing Central Jails, but in any case in which this condition is not fulfilled and house-rent has actually been granted under the previous orders, it will be open to the Local Government or Administration to continue the allowance for a reasonable time sufficient to enable the Superintendent or Deputy Superintendent to move to a residence so approved.

ORDER.—Ordered that a copy of this Resolution be forwarded to the * for information and guidance, and that a copy, with copy of the letter from the Punjab Government, No. 119, dated the 12th April last, be forwarded to the Department of Finance and Commerce for information.

* [illegible]

(True Extract.)

(Signed) C. J. LYALL,
Secy. to the Govt. of India.

ORDER—dated 26th September 1883, No. 1278, Judicial.

Communicated to the Inspector-General of Jails and to the Public Works Department for information and guidance.

(True Extract.)

(Signed) J. P. PRICE,
Chief Secretary.

ORDER—dated 12th October 1883, No. 2362 W., Public Works.

Communicated to officers of the Public Works Department.

(True Extract.)

(Signed) J. HANNYAN,
Ag. Joint Secy. to Govt., P. W. D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
The Consulting Architect to Government.
The Examiner, Public Works Accounts.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 10th.

Recd. *Encl.*

G.O., 10th Oct. 1893, No. 2582 W.

OCTOBER.

Rent-free quarters

Resolution of the Government of India relative to the question of — for Superintendents and Deputy Superintendents of Central Jails, communicated to officers of the department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From W. P. AUSTIN, Esq., I.C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 4th September 1893, No. 1688.

I have the honour to forward, for the information of Government, copy of resolution passed by the Board at its meeting on Friday, the 1st instant, together with copy of chemical analyses of nine samples of cement.

ENCLOSURES.

EXTRACT of Proceedings of the Trustees of the Harbour of Madras at a meeting held at the offices of the Board on Friday, the 1st day of September 1893.

* * * * *

5. Read letter No. 383, dated 24th August 1893, from the Board's Engineer, forwarding copy of Chemical Examiner's No. 749, dated 18th idem, with the results of the chemical tests on the quantity of cement in stock with reference to Sir Alexander Rendel's remarks printed in G.O., No. 821 W., dated 24th March, and Board's Resolution No. 3, dated 9th June.

Resolved that the Chemical Examiner's analyses be forwarded for the information of Sir Alexander Rendel.

* * * * *

(True Extract.)

(Signed) J. HUTCHENCE,
Acting Secretary.

ANALYSES of nine samples of cement received with your letter No. 200, dated 26th June 1893.

—	S.S. *Goorkha*, 14th October 1890—Wouldham Cement Company.	S.S. *Rewa*, 26th October 1890—Wouldham Cement Company.	S.S. *Navarino*, 25th December 1890—Wouldham Cement Company.	S.S. *Goorkha*, 15th March 1892—Tunnel Company.	S.S. *Rewa*, 1st April 1892—Tunnel Company.	S.S. *Golconda*, 7th May 1892—Tunnel Company.	S.S. *Deepdale*, 9th May 1892—Tunnel Company.	S.S. *Navarino*, 24th May 1892—Tunnel Company.	S.S. *Dunera*, 8th June 1892—Tunnel Company.
Moisture	0·310	0·490	0·412	0·246	0·200	0·112	0·238	0·174	0·176
Insoluble silica	5·693	5·328	3·054	2·520	2·467	2·597	2·114	1·783	2·200
Soluble silica	21·407	24·402	23·756	24·380	23·433	23·443	24·286	24·537	24·190
Ferri oxide (Fe_2O_3)	4·200	2·760	3·760	3·240	3·160	3·200	3·320	3·280	3·280
Alumina (Al_2O_3)	9·150	8·090	7·640	7·010	7 590	7·950	6·280	6·870	7·270
Lime (CaO)	54·107	53·468	56·951	58·180	58·716	57·976	59·332	59 035	58·732
Calcium sulphate ($CaSo_4$) ..	2·217	2·480	2·451	2·188	2·246	2·071	2 246	2·217	2·071
Magnesia (Mgo)	0·252	0·306	0·144	0·414	0·450	0·216	0·522	0·324	0·270
Potash (K_2O)	0·897	0·733	0·844	0·627	0·617	0·945	0·752	0·878	0·791
Phosphoric anhydride (P_2O_5) ..					trace.				
Carbonic anhydride (CO_2) and unaccounted for 1	1·767	1·943	0·988	1·195	1·121	1·490	0·910	0·902	1·020
	100·000	100·000	100·000	100·000	100·000	100·600	100·000	100·000	100·000
Specific gravity	4·32	4·35	4·16	3·21	3·28	3·18	3·23	3·28	3·52

MADRAS,
18th August 1893.

(Signed) J. L. VANGEYZEL, M B., C.M., Surgn.-Major,
Chemical Examiner

TESTS of Portland cement.

Number of sample.	Number of briquettes.	Name of manufacturer or of cement and date of delivery on the works.	Size of briquettes.	Quantity of water used in gauging.	Quantity of dry cement in each briquette.	Quantity of sand in each briquette in measures of cement.	Date of gauging.	Date of breaking.	Age. Months.	Age. Days.	Tensile strain—average.	Residue of dry cement on sieves. 25 × 25	Residue of dry cement on sieves. 50 × 50	Weight of dry cement per struck bushel.	Remarks.
			SQ. IN.	OZ.	LB. OZ.						LB.	PER CENT.	PER CENT.	LB.	
A.	16	Wouldham Cement Company per S.S. *Goorkha* on 14th October 1890.	One	$1\frac{1}{8}$	0 $5\frac{1}{2}$	*Nil.*	5th Nov. 1890..	12th Nov. 1890.	..	7	486	13	7	$101\frac{1}{2}$	Original tests in 1890.
								3rd Dec. ,,	..	28	591	..	..	..	
							1st May 1893 ..	8th May 1893.	..	7	478	..	..	..	Tests made in 1893.
								29th ,, ,,	..	28	609	..	..	..	
B.	6	Wouldham Cement Company per S.S *Rewa* on 26th October 1890.	,,	$1\frac{1}{8}$	0 $5\frac{1}{2}$	,,	29th April 1891.	6th ,, 1891.	..	7	491	16	8	101	Original test in 1891.
								27th ,, ,,	..	28	602	..	..	..	
							1st May 1893 ..	8th ,, 1893.	..	7	444	..	..	..	Tests made in 1893.
								29th ,, ,,	..	28	541	..	..	..	
C.	3	Wouldham Cement Company per S.S. *Navarino* on 25th December 1890.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	30th April 1891.	7th ,, 1891.	..	7	463	11	16	$99\frac{1}{2}$	Original test in 1891.
								28th ,, ,,	..	28	564	..	..	..	
							19th April 1893.	26th April 1893.	..	7	439	..	..	..	Test made in 1893.
								17th May ,,	..	28	526	..	..	..	
D.	3	Tunnel Cement Company per S.S. *Golcondah* on 7th May 1892.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	25th May 1892.	1st June 1892.	..	7	511	17	8	109	Original test in 1892.
								21st ,, ,,	..	28	666	..	..	..	
							20th April 1893.	27th April 1893.	..	7	512	..	..	..	Tests made in 1893.
								18th May ,,	..	28	676	..	..	..	
E.	..	Tunnel Cement Company per S.S. *Deepdale* on 9th May 1892.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	25th May 1892.	1st June 1892.	..	7	534	17	8	$107\frac{1}{2}$	Original test in 1892.
								22nd ,, ,,	..	28	682	..	..	..	
							21st April 1893.	28th April 1893.	..	7	605	..	..	..	Tests made in 1893.
								19th May ,,	..	28	766	..	..	..	
F.	..	Tunnel Cement Company per S.S. *Manora* on 24th May 1892.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	11th June 1892.	19th June 1892.	..	7	501	..	..	..	Original test in 1892.
								9th July ,,	..	28	642	..	..	..	
							21st April 1893.	28th April 1893.	..	7	539	..	..	..	Test made in 1893.
								19th May ,,	..	28	677	..	..	..	
G.	3	Tunnel Cement Company per S.S. *Dunera* on 8th June 1892.	,,	$1\frac{1}{8}$	0 $5\frac{1}{2}$	,,	11th June 1892.	19th June 1892.	..	7	480	13	8	108	Original test in 1892.
								9th July ,,	..	28	605	..	..	..	
							21st April 1893.	28th April 1893.	..	7	487	..	..	..	Test made in 1893.
								19th May ,,	..	28	598	..	..	..	
H.	..	Tunnel Cement Company per S.S. *Goorkha* on 15th March 1892.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	18th Mar. 1893.	24th Mar. ,,	..	7	440	17	9	107	Original test in 1892.
								14th April ,,	..	28	651	..	..	..	
							19th April 1893.	26th ,, ,,	..	7	518	..	..	..	Test made in 1893.
								17th May ,,	..	28	718	..	..	..	
I.	..	Tunnel Cement Company per S.S. *Rewa* on 1st April 1892.	,,	$1\frac{1}{16}$	0 $5\frac{1}{2}$	,,	22nd April 1892.	30th April 1892.	..	7	530	15	9	$107\frac{1}{2}$	Original test in 1892.
							23rd ,, ,,	20th May ,,	..	28	700	..	..	..	
							20th ,, 1893.	27th April 1893.	..	7	553	..	..	..	Test made in 1893.
								18th May ,,	..	28	696	..	..	..	

MADRAS,
18th August 1893.

(Signed) A. LEE POGSON, M.I.M.E., A.M.I.C.E., A.I.E.E.,
Engineer, Harbour Trust Board.

ANALYSES of nine samples of cement.

Portland cement analyses.	S.S. *Goorkha*, 14th October 1890—Wouldham Cement Company.	S.S. *Rewa*, 26th October 1890—Wouldham Cement Company.	S.S. *Navarino*, 25th December 1890—Wouldham Cement Company.	S.S. *Golcondah*, 7th May 1892—Tunnel Company.	S.S. *Deepdale*, 9th May 1892—Tunnel Company.	S.S. *Manora*, 24th May 1892—Tunnel Company.	S.S. *Dunera*, 8th June 1892—Tunnel Company.	S.S. *Goorkha*, 15th March 1892—Tunnel Company.	S.S. *Rewa*, 1st April 1892—Tunnel Company.
	A.	B.	C.	D.	E.	F.	G.	H.	I.
Moisture	0·310	0·490	0·412	0·112	0·238	0·174	0·176	0·246	0·200
Insoluble silica	5·693	5·328	3·054	2·597	2·111	1·783	2·200	2·520	2 467
Soluble silica	21·407	24.402	23·756	23·443	24·286	24·537	24·190	24·380	23·433
Ferri oxide (Fe_2O_3)	4·200	2 760	3·760	3·200	3·320	3·280	3·280	3·240	3·160
Alumina (Al_2O_3)	9·150	8·090	7·640	7·950	6·280	6·870	7·270	7·010	7·590
Lime (CaO)	54·107	53·468	56·951	57·976	59·332	59·035	58·732	58·180	58·716
Calcium sulphate ($CaSo_4$)	2·217	2·480	2.451	2·071	2·246	2·217	2·071	2·188	2·246
Magnesia (Mgo)	0·252	0·306	0·144	0·216	0·522	0·324	0·270	0·414	0·450
Potash (K_2O)	0·897	0·733	0·844	0·945	0·752	0·878	0·791	0·627	0·617
Phosphoric anhydride (P_2O_5) ..	trace.								
Carbonic anhydride (CO_2) and unaccounted for	1·767	1·943	0·988	1·490	0·910	0·902	1·020	1·195	1·121
	100·000	100·000	100·000	100·000	100·000	100·000	100·000	100·000	100·000
Specific gravity	4·32	4·35	4·16	3·18	3·23	3·28	3·52	3·21	3·18

MADRAS,
18th August 1893.

(Signed) J. L. VANGEYZEL, M.B., C.M., Surgn.-Major,
Chemical Examiner.

No. 1603, Marine.

Transferred to the Public Works Department.

OOTACAMUND,
9th September 1893.

(Signed) J. F. PRICE,
Chief Secretary.

From W. P. AUSTIN, Esq., I.C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 13th September 1893, No. 1801.

In continuation of my No. 1688, dated 4th instant, forwarding chemical analyses of nine samples of cement, I have the honour to forward the Engineer's tests of the cement, and to request if Government thinks it necessary that these tests may also be forwarded for the information of Sir Alexander Rendel.

No. 1646, Marine.

Transferred to the Public Works Department in continuation of endorsement, dated 9th September 1893, No. 1603.

OOTACAMUND,
18th September 1893.

(Signed) A. T. PRINGLE,
Assistant Secretary.

ORDER—dated 11th October 1893, No. 2573 W., Public Works.

Ordered that the Chemical Examiner's analyses and the Harbour Works Engineer's tests of the cement in stock at the Madras Harbour Works be forwarded to the Home Government.

[Here enter No. $\frac{8}{2573}$ W., dated 11th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Chairman, Madras Harbour Trust Board.
" Marine Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 11*th*.

Recd. *Encl.*

G.O., 11th Oct. 1893, No. 2573 W.

OCTOBER.

Cement

The Chemical Examiner's analyses and the Harbour Works Engineer's tests of the — in stock at the Madras Harbour Works, ordered to be forwarded to the Home Government.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

With reference to Your Lordship's despatch No. 2 (Public Works), dated 23rd February 1893, we have the honour, at the request of the Madras Harbour Trust Board, to forward, for the information of Sir A. Rendel, copy of the Chemical Examiner's analyses of nine samples of cement in stock at the Madras Harbour Works; also the Harbour Works Engineer's tests of the cement.

We have the honour to be,
My Lord,
Your Lordship's most obedient, humble servants,

(Signed) WENLOCK.
(„) H. E. STOKES.
(„) J. H. GARSTIN.

(By Order.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
11th October 1893.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

LETTER to the Right Honorable the Secretary of State for India.

No. $\frac{8}{2573\ W.}$, dated 11th Oct. 1893.

FORWARDING, for the information of Sir A. Rendel, copy of the Chemical Examiner's analyses and the Harbour Works Engineer's tests of the cement in stock at the Madras Harbour Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), dated 13th September 1893, Mis. No. 5312.

Read—the following letter from J. ANDREW, Esq., Acting Collector and District Magistrate of Salem, to the Secretary to the Commissioners of Land Revenue, dated 8th September 1893, Ref. on No. 1991-Ver. :—

I have the honour to submit herewith copy of arzi No. 343 C and D of the 27th May last of the Deputy Tahsildar of the Shevaroy Hills, together with a plan and memorandum of measurement in original, submitting proposals for the extension of his office building and for other additions, and to request that the Board will be pleased to obtain the sanction of Government for the preparation by the Public Works Department of the necessary plans and estimates.

2. I have seen the place and think that the extension proposed by the Deputy Tahsildar is very necessary. The Executive Engineer, Salem division, who was consulted in the matter, is of opinion that the proposed extension will cost more than Rs. 500.

ENCLOSURE.

From M.R.Ry. S. VENCATASUBBIER, Avergal, Deputy Tahsildar of Shevaroy Hills, to the Collector of Salem, dated Yercaud, 27th May 1893, Ref. No. 343 C and D.

I beg to submit that my office building, which is not spacious enough for the present requirements, requires improvement, and therefore suggest the following improvements and additions for your honour's kind consideration and early orders.

2. (*a*) Referring to the enclosed rough sketch, I beg to state that the room B where the two clerks at present sit with their current records being too small, it is necessary that this and the registration clerks' room C should be converted into one room for my clerks by removing the wall D which divides them at present, and that another room G should be added on the western side for the records and forms, &c., which are now kept in the court room in three almyras.

(*b*) As the conversion suggested would deprive the registration clerk of his room, another room A should be added on the northern side for the use of the registration clerk.

(*c*) Moreover, during cloudy days the court room gets dark so soon as 4 P.M., and I find it difficult to work without light till the close of the day. It is therefore necessary that some contrivance should be made in the court room to admit of light till 6 P.M.

(*d*) As the treasury and court rooms are situated at present, I cannot see what the shroff is doing. I would therefore suggest the expediency of opening a large window in the wall which intercepts the two rooms in the place marked E, so that I may have always a look at what the shroff is doing. Further, a wooden railing, with a flat wooden top fit for counting money thereon, is also necessary in the place marked F in the treasury room so as to prevent people from approaching the treasury, which is generally the case at present.

(*e*) The front verandah on the eastern side also needs extension as far as AA and the addition of another room BB to the present police lock-up CC is very essential to avoid the present objectionable practice of keeping male and female prisoners when under remand in one and the same cell. If this suggestion is approved and carried out, the wall DD will have to be removed which will make the police guard room EE spacious enough. In this connection I

have also to urge the extreme necessity of providing a small kitchen for cooking the meals of the prisoners when under remand. At present the meals are cooked underneath the trees around the office, which is rendered very inconvenient during cold and rainy seasons. A ryots' shed is also very much needed as the parties are put to much inconvenience during the unfavorable seasons just now mentioned for want of a place to wait.

3. When Mr. Manson was here some time ago, I had secured an opportunity to take his opinion *re* the improvements I am now suggesting, and he opined that these can be easily effected with funds available on his being addressed by your honour on the subject.

4. As doubtless you are also convinced, during your recent inspection of my office, of the necessity that the building needs be made more spacious, I beg that early steps may be taken in the matter.

Resolution—dated 13th September 1893, Mis. No. 5312.

Submitted to Government with the request that the necessary orders may be issued in the Public Works Department.

(A true Copy and Extract.)

(Signed) W. S. MEYER,
Acting Secretary.

Mis. No. 3628, Revenue.

Approved and transferred to the Public Works Department for the issue of necessary orders.

OOTACAMUND,
2nd October 1893.

(Signed) R. C. C. CARR,
Under Secy. to Government.

ORDER—dated 11th October 1893, No. 2583 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, who will submit a plan and estimate for the required extension of accommodation.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle, with two enclosures.
" Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 11th.

Recd. *Encl.*

G.O., 11th Oct. 1893, No. 2583 W.

OCTOBER.

Office

The Superintending Engineer, IV Circle, directed to submit a plan and estimate for certain extensions required for the — of the Deputy Tahsildar of the Shevaroys.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

Office-note from the Examiner, Public Works Accounts, dated Madras, 6th October 1893, No. 1281 C.

In forwarding, for your information, copy of circular No. 14 of 1893 from the Accountant-General, Public Works Department, together with its enclosure, containing a memorandum of rulings on claims for exchange compensation allowance, I would request that the orders may be communicated to the department generally for guidance.

ENCLOSURES.

Circular from R. G. MACDONALD, Esq., Accountant-General, Public Works Department (Establishment), to the Examiner of Public Works Accounts, Madras and Coorg, &c., dated Simla, 27th September 1893, No. 14.

[*Orders and opinions passed on questions regarding the exchange compensation allowance.*]

I have the honour to forward, for your information and guidance, the accompanying memorandum containing authoritative orders and opinions passed up to date on questions connected with claims to the exchange compensation allowance sanctioned in Government of India, Finance Department, Resolution No. 3624 A., dated 18th August 1893, so far as they relate to officers and subordinates in the Public Works Department.

Memorandum of rulings on claims for exchange compensation allowance.

All officers to whom the rules in chapter XIII of the Civil Service Regulations apply may be assumed, without further proof, to be entitled to the allowance. In cases of doubtful domicile, the orders of the Local Government should be taken.

2. Persons born and educated in India who entered Government service without having been out of the country should, *primâ facie*, be considered as domiciled in India. Before passing exchange compensation allowance to any such officer the sanction of the Local Government should be required.

3. Exchange compensation allowance is not admissible to temporary men without the orders of the Government of India, nor to engineers sent to England for practical training under the provisions of Public Works Department Code, volume I, chapter IV, paragraph 110, nor to engineers appointed from Indian colleges since 1884, as they appear to be statutory natives.

4. Both permanent pensionable and non-pensionable officers and subordinates, including traffic candidates, are eligible for the allowance.

5. The allowance is drawn with pay and on the same bill on which pay is drawn, being shown by a separate entry as follows :—

"*Add* for exchange compensation allowance at per cent."

It should be charged to the same head as pay, but in all entries in accounts it should be shown separately from pay.

6. The allowance is calculated on the whole gross salary of the month before deduction of income-tax and fund deductions, &c. For the purpose of calculation, the amount of salary should be taken to the nearest rupee, fractions of a rupee under eight annas being discarded. The allowance is chargeable with income-tax; but for purposes of exemption on one-sixth of salary under Civil Account Code, articles 33 and 34, it may be treated as part of gross salary.

7. Military officers and subordinates are entitled to the allowance; but all military pay converted from sterling into rupees at the annual rate of exchange should be excluded from salary on which the allowance is calculated. In the case of officers not drawing consolidated pay it should be calculated on both military and departmental pay. It may be granted on ration money.

8. Exchange compensation is admissible on privilege leave allowances, even though the leave is spent out of India; but pending further orders it should not be passed on furlough allowances paid in India.

9. In the case of officers who have made family remittances through the Government account since the 1st April 1893, adjustments should be made as follows.—

(i) Bills for arrears of exchange compensation allowances should be submitted for the full amount due under the orders since 1st April.

(ii) From the bill of each officer who has since 1st April 1893 made any family remittance through the Government account at the special rate of 1*s.* 4$\frac{3}{4}$*d.*, a deduction should be made, which is to be determined as follows:—

(*a*) For the first quarter, 1st April to 30th June 1893, the deduction in the case of each officer should be the difference between the amount of his actual remittances through the Government account converted at 1*s* 4$\frac{3}{4}$*d.*, and the amount of those remittances converted at 1*s.* 2$\frac{4}{5}$*d.*, which is the average rate fixed for that quarter;

(*b*) For the period from 1st July 1893 to 18th August 1893, the deduction should be the difference between the amount of actual remittances converted at 1*s.* 4$\frac{3}{4}$*d.*, and the amount of those remittances converted at 1*s.* 3$\frac{5}{8}$*d.*, which is the average rate fixed for that period;

(*c*) From the 19th August 1893, the privilege of making remittances through the Government account ceases except when this is inconsistent with the terms of any contract of service.

Any case in which the contract of service of any officer may entitle him to retain the privilege of making remittances through the Government account should be reported to the Accountant-General, Public Works Department.

10. With reference to Public Works Department Code, volume I, chapter III, paragraph 126, the exchange compensation allowance proposed to be passed for the first time to an officer in the Superior Accounts Branch should be reported to the Accountant-General, Public Works Department. Thereafter, any change in the rate of the allowance need not be reported.

11. Furlough allowances drawn in England since 1st April 1883 at 1*s.* 4$\frac{3}{4}$*d.* should be re-adjusted, the difference between that rate and 1*s.* 6*d.* being paid in India at the official rate of exchange fixed for 1893–94, viz., 1*s.* 2$\frac{3}{4}$*d.*

ORDER—dated 13th October 1893, No. 2601 W., Public Works.

Communicated to officers of the Public Works Department.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Chief Engineer for Irrigation.
,, the Consulting Engineer for Railways.
,, Superintending Engineers.
,, the Consulting Architect to Government.
,, the Superintendent of Works, Periyár Project.
,, the Examiner, Public Works Accounts.
,, the Examiner, Railway Accounts.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13*th*.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2601 W.

OCTOBER.

Exchange Compensation Allowance

Circular from the Accountant-General, Public Works Department, containing a memorandum of rulings on claims for —, communicated to officers of the department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From J. E. PAUL, Esq., Executive Engineer, Nellore division, to the Superintending Engineer, II Circle, dated 23rd September 1893, No. 279.

I have the honour to state that Assistant Superintendent's bungalow at Ongole was not under the occupation of Assistant Superintendent of Police from 1st February 1893 to 26th July 1893 owing to repairs being executed to the building, and to request that sanction of Government may be obtained for the remission of rent (Rs. 145-15-6) for the period under clause III, paragraph 28, chapter II of the Public Works Department Code, volume I.

No. 413 N.L.

Forwarded to the Chief Engineer, Public Works Department, for favour of obtaining the sanction of Government.

(Signed) J. W. MARTIN,
Suptg. Engineer, II Circle.

3rd October 1893.

ORDER—dated 13th October 1893, No. 2602 W., Public Works.

The remission of rent applied for is sanctioned.

2. A copy of these Proceedings will be forwarded to the Government of India with reference to clause (*a*), rule III, paragraph 28, chapter XI, Public Works Code.

[Here enter No. 2603 W., dated 13th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, II Circle.
" Examiner, Public Works Accounts.
" Judicial Department.

ENDORSEMENT—dated 13th October 1893, No. 2603 W., Public Works.

Forwarded.

(By Order.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13*th*.

Recd. *Encl.*

G.O., 13th Oct. 1893, Nos. 2602, 2603 W.

OCTOBER.

Rent

Forwarding copy of Proceedings sanctioning remission of — of the Assistant Superintendent's bungalow at Ongole during the period it was under repair.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

Resolution from the Government of India, Public Works Department (General), dated Simla, the 28th September 1893, No. 2523 G.

[*Reorganisation of the Engineer Establishment of the Public Works Department.*]

Read—

Despatch to Secretary of State, No. 65, Public Works, dated 2nd November 1892.
" from " " 31 " " 27th July 1893.
Telegram to " dated 8th September 1893.
" from " " 27th "

Resolution.—With the sanction of the Secretary of State for India, the Governor-General in Council is pleased to promulgate the following rules and orders for regulating the organisation of the grades, the grade pay, and the promotion of Executive and Assistant Engineers of the Public Works Department.

2. In the case of officers entitled to draw the rates of pay of the Imperial service, the present organisation of the grades and the pay are modified as shown below :—

Present organisation and pay.	Monthly pay. RS.	Organisation and pay as now sanctioned.	Monthly pay. RS.
Executive Engineer, 1st grade	950	Executive Engineer, 1st grade ...	1,000
" " 2nd "	800	" " 2nd " ...	850
" " 3rd "	700	" " 3rd " ...	700
" " 4th "	600	Assistant Engineer, 1st " ...	550
Assistant Engineer, 1st "	500	" " 2nd " ...	450
" " 2nd "	350 rising to 400 after 3 years	" " 3rd " ...	350
" " 3rd "	250	Ungraded—old 3rd grade (will eventually disappear	250

Officers in the present 3rd grade of Assistant Engineers will remain so graded, being denominated as "*old 3rd grade*" until they rise, in accordance with the present rules, to the new 3rd grade (old 2nd grade). Apprentice Engineers now in the department, or entering it under the guarantee of 1884,* and not under the Provincial service rules published in Resolution No. 2112 G., dated 19th July 1892, will rise in accordance with present rules to the old 3rd grade of Assistant Engineers, and thence to new 3rd grade (old 2nd grade).

NOTE.—Apprentice Engineers appointed to the Provincial service under the above quoted Resolution will be promoted under the rules of that Resolution to the 3rd Assistant grade of the Provincial establishment, the latter establishment being modified as indicated in paragraph 7 of this Resolution.

* Resolution No. 1443 G., dated 13th December 1884.

3. The increased rates of pay in the 1st and 2nd Executive grades will apply from 16th August 1893 to all members of the establishment in these grades or promoted to them. The reduced rates in the 1st, 2nd and 3rd Assistant grades will apply to officers entitled to draw the Imperial rates of pay only in the case of those who have not entered the colleges for their course of training before the issue of these orders. Others will continue to draw the present rates of Rs. 600, Rs. 500, and Rs. 350 rising to Rs. 400 after three years' approved service if not promoted at the end of three years.

NOTE.—No officer passed over for promotion to the new 2nd grade of Assistant can draw the increment.

4. The following table compares the present and future staff scale of pay under these orders to be drawn by Royal Engineer officers who draw the staff scale of pay. The lower rates in the three Assistant grades will apply only to those who elect for the staff scale after the publication of these orders:—

Staff scale of pay.

PRESENT.			FUTURE.		
Grades.	Staff in addition to Military pay.	Maximum.	Grades.	Staff in addition to Military pay.	Maximum.
	RS.	RS.		RS.	RS.
Executive Engineer, 1st grade ..	600	1,250	Executive Engineer, 1st grade ..	600	1,250
,, ,, 2nd ,, ..	500	900	,, ,, 2nd ,, ..	500	900
,, ,, 3rd ,, ..	450	800	,, ,, 3rd ,, ..	450	800
,, ,, 4th ,, ..	350	650	Assistant Engineer, 1st ,, ..	300	600
Assistant Engineer, 1st ,, ..	300	550	,, ,, 2nd ,, ..	250	500
,, ,, 2nd after 3 years' approved service ..	250	500	,, ,, 3rd ,, ..	200	450
Assistant Engineer, 2nd for the first 3 years of service	200	450			

5. An officer who is substantively, or substantively for a time, in the present 4th Executive grade, although he may be graded as an Assistant Engineer, 1st grade, under the new organisation, may with the special sanction of the Local Government retain his present denomination, and may continue to draw travelling allowance as an Executive Engineer. Such officers will appear in the classified list as "Executive Engineers, old 4th grade," until promoted to the 3rd grade.

6. Promotions shall be made from grade to grade and class to class under the following rules, subject to the present rules regarding recommendation and selection of the officers most deserving of promotion—

(1) A cadre number shall be laid down from time to time for each list on which promotions are made. The distribution of this number over the six grades shall be apportioned as follows:—

The number in the 1st Executive grade shall not exceed 25 per cent. of the cadre number.

The number in the 1st and 2nd Executive grades together shall not exceed 40 per cent. of the cadre number.

The number in the 1st, 2nd and 3rd Executive grades together shall not exceed 50 per cent. of the cadre number.

The number in the 1st, 2nd and 3rd Executive grades and 1st Assistant Engineer grade shall not exceed 70 per cent. of the cadre number.

The number in the 1st, 2nd and 3rd Executive grades and 1st and 2nd Assistant Engineer grades shall not exceed 85 per cent. of the cadre number.

The balance of the staff shall be either in the Assistant Engineer, 3rd grade, or shall remain nominally in the 3rd Assistant grade of the present organisation, according to the rules to which they are subject (see paragraph 2).

NOTE.—The old 3rd grade of Assistant Engineer will disappear as soon as all present incumbents and the apprentices under the guarantee of 1884 have been promoted to the new 3rd grade of Assistant Engineers.

(2) The scale, framed as above, shall be the limiting scale within and up to which promotions can be made, provided that the officers selected for permanent promotion fulfil the conditions of the following time rule :—

	RS.	
Officers shall be eligible for promotion to Assistant Engineer, 2nd grade	450	On completing three years' service from date of entering the new 3rd grade (old 2nd grade) of Assistant Engineer.
Officers shall be eligible for promotion to Assistant Engineer, 1st grade	550	On completing 3½ years in the 2nd grade, or 6½ from date of entering the 3rd grade of Assistant Engineer.
Officers shall be eligible for promotion to Executive Engineer, 3rd grade	700	On completing 4½ years in the 1st grade, or 11 years from date of entering the 3rd grade of Assistant Engineer.
Officers shall be eligible for promotion to Executive Engineer, 2nd grade	850	On completing 3½ years in the 3rd grade of Executive Engineer, or 14½ years from date of entering the 3rd grade of Assistant Engineer.
Officers shall be eligible for promotion to Executive Engineer, 1st grade	1,000	On completing 4½ years in the 2nd grade of Executive Engineer, or 19 years from date of entering the 3rd grade of Assistant Engineer.

NOTE.—In the case of officers who entered the Department above the rank of Assistant Engineer, 2nd grade (old organisation), an equitable allowance shall be made, if necessary, in estimating their title to promotion under this rule, which will ordinarily be the time period in each grade according to the above standard.

(3) If, however, an officer eligible for promotion under the time rule is not promoted for any reason, such as not being recommended or being otherwise superseded, for each officer so passed over another officer may be promoted within the measure of the limiting scale of clause (1).

The result of this rule will be that the actual scale will be the same as if all the officers eligible were promoted, so far as the limiting scale permits.

Under this rule any officer not qualified by length of service may be promoted in place of an officer who is eligible by the time rule, but not equally eligible with the former under the rule of selection.

(4) Officers on deputation for periods exceeding six months, provided they are absentees as defined in Articles 110 and 111, Civil Service Regulations, shall not be counted against the scale, but may be promoted, if recommended and considered deserving under the rules, *pari passu* with their contemporaries (juniors) on the Government list. Officers promoted sub. *pro tem.* to the Superintending Engineer class, or other corresponding posts in the place of officers who are similarly on deputation, shall be dealt with in the same way, and permanent promotions made in their places, if the scale and time rule admit. Such officers on return to Government service, or on reverting from the Superintending Engineer class, shall be absorbed in the grades to which they belong on the occurrence of the first vacancy.

(5) Excesses over and above the limiting scale of clause (1), which may be found to exist in certain of the lower grades, above the 3rd Assistant Engineer grade, after carrying out promotions in accordance with the above rules, shall be absorbed by refraining from promoting officers until the excesses disappear. Excesses in the 3rd Assistant grade caused by the promotion or appointment of officers to that grade under the ordinary rules are permissible. Such officers, as well as the ungraded officers below the 3rd grade, who are in excess of the total cadre, if any, will be considered as supernumeraries.

7. Officers of the Provincial establishment appointed under the rules contained in Resolution No. 2112 G., dated 19th July 1892, will be graded with the officers of the Imperial establishment in accordance with clause VI, paragraph 1, of that Resolution; and will be promoted, subject to the present rules regarding recommendation and selection, side by side with the officers of the Imperial establishment, in accordance with the scale and time rule laid down in clauses (1) and (2), paragraph 6, of this Resolution. They will draw the rates of pay laid down in clause II of the Resolution of 19th July 1892 quoted above. The arrangement of the grades will, however, be modified in accordance with the terms of this Resolution, and will stand as follows :—

		Pay.
		RS.
Executive Engineer,	1st grade	650
" "	2nd "	550
" "	3rd "	475
Assistant Engineer,	1st "	400
" "	2nd "	350
" "	3rd "	250

8. Temporary promotions on account of officers absent on furlough, or temporarily promoted to the Superintending Engineer class for officers so absent, will be made, in accordance with present rules, from the Assistant Engineer, 1st grade, to the Executive Engineer, 3rd grade. The time limit in clause (2) of paragraph 6 will not apply to such promotions.

9. The following are the cadre numbers and limiting scale for each list calculated in accordance with clause (1) of paragraph 6 :—

—	Cadre No.	Limiting Scale.					
		Executive Engineers.			Assistant Engineers.		
		1st	2nd	3rd	1st	2nd	3rd
Madras	72	18	11	7	14	11	11
Bombay	78	19	12	8	16	11	12
Bengal	56	14	8	6	11	9	8
North-Western Provinces and Oudh	85 *	21	13	9	17	13	13
Punjab	112 †	28	17	11	22	17	17
Local Administrations	130	32	20	13	26	19	20
Railways	196	49	29	20	39	30	29

* 37 for Buildings and Roads Branch and 49 for Irrigation Branch .. } This distribution may, however, be modified by the Local Government.
† 44 " " " " 68 " " .. }

It should be carefully borne in mind that promotions cannot be made up to the full limit of this scale unless the officers are either eligible for the promotion under the time rule (clause (2) of paragraph 6), or are promoted in place of other officers eligible under the time rule, but of inferior merit (clause (3) of the same paragraph).

The above cadre numbers and scale shall take effect from the 16th August 1893, and shall regulate the promotion on each list up to the end of 1894, provided that, should the strength of any list be reduced within that period by transfers and retirements to such an extent that the difference between its actual strength and the cadre number equals or exceeds 10 per cent. of the latter, then the cadre number and corresponding scale shall be reconsidered with reference to the existing strength. At the end of 1894 all the cadre numbers will be subject to reconsideration.

10. Under the orders of Her Majesty's Secretary of State for India, the rules for the organisation of the Engineer establishment now promulgated are to be subject to revision at the end of seven years.

11. The condition in the rule of the Public Works Code, volume I, chapter 1, paragraph 11, according to which the increments of Rs. 50 each at the end of four and eight years' service respectively in the Executive Engineer, 1st grade, can be claimed on account of satisfactory service, only if the officer consents to forego all

claims to promotion to the Superintending Engineer class, is hereby abrogated. In future, subject to the present condition of approved service, the increments may be granted to any officer in the Executive Engineer, 1st grade, on completion of the prescribed periods of service in that grade. Any officer who has completed eight years' continuous and efficient service in the 1st grade may be granted the two increments of Rs. 50 each from the 16th August last, in addition to the pay of the 1st grade now sanctioned, if he has not already drawn the first increment; and the second increment, if he has already drawn the first, notwithstanding that he has not completed the period of four years from the date on which he began to draw the first increment.

In future no officer holding the position of Superintendent of Works shall draw any local allowance as such, which will have the effect of raising his salary above that of a Superintending Engineer, 3rd class.

12. The rules of the Public Works Department Code which now regulate promotion, after passing a qualifying examination, to the 4th grade of the Executive Engineer class and to the 1st and 2nd grades of the Assistant Engineer class shall now be read as applying to promotion to the corresponding grades under the new organisation, namely, to the 1st, 2nd and 3rd grades respectively of the Assistant Engineer class.

13. In promulgating these rules, the Governor-General in Council desires to call special attention to the previous orders directing that weight shall be given to merit rather than to mere seniority in selecting officers for promotion in the several grades.

The Governments of Madras and Bombay, Public Works Department, General and Railway Branches.
The Governments of Bengal, the North-Western Provinces and Oudh, and the Punjab.
The Chief Commissioners of the Central Provinces, Burma, Assam and Coorg.
The Resident at Hyderabad.
The Agents to the Governor-General for Rajputana, Central India and Baluchistan.
The Accountant-General, Public Works Department.
The Director-General of Railways.
The Consulting Engineers to the Government of India for Railways, Calcutta, Central Division, Lucknow and Assam.

Order.—Ordered that the above resolution be circulated to the Local Governments and Administrations and officers noted on the margin for information and guidance, and that it be published in part 1 of the *Gazette of India.*

(Signed) F. L. O'CALLAGHAN,
Secretary to the Govt. of India.

To the Secretary to Government, Public Works Department.

ORDER—dated 13th October 1893, No. 2604 W., Public Works.

Communicated to officers of the Public Works Department.

2. A revised scale of establishment drawn up in accordance with the present orders will be published in the *Fort St. George Gazette* in due course.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
,, the Consulting Architect to Government.
,, the Superintendent of Works, Periyár Project.
,, the Chief Engineer for Irrigation.
,, the Consulting Engineer for Railways.
,, the Examiner, Public Works Accounts.
,, the Examiner, Railway Accounts.
,, the Financial Department.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13*th.*

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2604 W.

OCTOBER.

Engineer Establishment of the Public Works Department

Resolution of the Government of India relative to the reorganisation of the —, communicated to officers of the department with an intimation that a revised scale of establishment drawn up in accordance therewith will be published in the *Fort St. George Gazette.*

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

G.O., dated 28th September 1893, Mis. No. 3583, Revenue.

Read—the following Proceedings of the Board of Revenue (Land Revenue), dated 6th September 1893, Mis. No. 5152 :—

Read—the following letter from the Acting Collector of North Arcot, dated 31st August 1893, No. 1092-Magl. Genl. :—

In forwarding the estimate, duly countersigned, for the construction of an office and sub-jail for the Ambur * Stationary Sub-Magistrate, I have the honour to urge very strongly the great necessity that exists for the work being commenced at once. At present the Sub-Magistrate holds his court in a small, ill-ventilated private building which causes considerable inconvenience both to himself and the public. There is no sub-jail and the police lock-up which is used as such is most unsuited for the purpose. There were six prisoners in it when I inspected it last month, and the atmosphere was anything but healthy. I trust, therefore, that funds will be allotted at once and that the Engineer may be directed to proceed with the work as rapidly as possible.

* Board's Proceedings, dated 4th February 1893, Mis. No. 817.

Resolution—

The site plan and estimate for Rs. 16,550 for constructing an office with out-houses for the Stationary Sub-Magistrate at Ambur are submitted for the early sanction of Government with reference to G.O., dated 30th January 1893, No. 373, Revenue.

2. The Board considers that the front of the building should face the north to save the court, the clerks' room and the verandahs from exposure to the sun from midday to sunset.

3. The Collector requests, for the reasons stated in his letter, that funds may be allotted and arrangements made for the execution of the work as early as possible.

Order—dated 28th September 1893, Mis. No. 3583, Revenue.

The site plan and estimate are approved and will be transferred to the Public Works Department, in which the Board's suggestion in paragraph 2 of its Proceedings read above will be considered.

(True Extract.)

(Signed) E. GIBSON,
Ag. Secretary to Government.

ORDER—dated 13th October 1893, No. 2606 W., Public Works.

The estimate, amounting to Rs. 16,550, for constructing a Deputy Tahsildar's office with out-houses at Ambur in the North Arcot district, is sanctioned.

2. The building will be erected so as to face the north as suggested by the Board of Revenue.

3. The Superintending Engineer, IV Circle, will report what sum can be spent on the work before the close of the current official year.

4. The sanction accorded in paragraph 1 has been registered as Provincial No. 97 W. of 1893-94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle, with plan and estimate (4).
,, Examiner, Public Works Accounts.
,, Revenue Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2606 W.

OCTOBER.

Deputy Tahsildar's Office at Ambur

Estimate of Rs. 16,550 for constructing a — in North Arcot district, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—again the following paper :—

G.O., dated 26th September 1893, No. 2471 W., Public Works.

Read—the following paper :—

From L. L. WICKHAM, Esq., General Superintendent, Public Works Stores, to the Chief Engineer, Public Works Department, dated Madras, 24th July 1893, No. 122 S.

I have the honour to submit herewith a special indent in triplicate for copper sheeting required for lock gates on the Buckingham Canal, together with the letter of the Executive Engineer which explains the circumstances under which it is required.

2. In the event of some of the locks not being made, the copper sheets would be required for repairs to the existing gates. I have had urgent indents also from Bezwada for the same material. It is not likely therefore to be a surplus.

ENCLOSURE.

From A. S. RUSSELL, Esq., Executive Engineer, Buckingham Canal Division, to the General Superintendent, Public Works Stores, dated Pálár, 3rd July 1893, No. 1002.

I have the honour to inquire whether you keep in stock copper or white metal sheets for sheathing lock gates in salt water. If not, I would request that you forthwith obtain copper sheets sufficient to sheathe two pairs of gates for ten new locks shortly to be built on this canal. The quantity required can be calculated from the experience you have already had of coppering flood gates on this canal,— a lock, with its two pairs of gates, requiring of course just double what a flood gate does.

2. Since the copper will only be required by this division as each lock is approaching completion and since its cost will then have to be charged off to the sanctioned estimate as funds are provided by Government, the proper course would seem to be for you to now obtain the copper sheets and keep them in stock until required by this division.

3. In the case of the existing flood gates that were recently, and are still being, coppered, a special estimate was sanctioned by Government and a general indent made on you for the quantity of copper required, but this course cannot be followed for the new locks now or shortly to be under construction as explained above in paragraph 2.

4. An early disposal of this matter will oblige.

Order—dated 26th September 1893, No. 2471 W., Public Works.

The indent will be returned to the Superintending Engineer for amendment. The supply indented for should be reduced by one half.

2. The amended indent should be submitted through the Examiner, Public Works Accounts, who is authorised to certify that funds to meet the cost of the articles will be provided during the current official year.

(True Extract.)

(Signed) F. W. ASHPITEL,
Under Secy. to Govt., P.W.D.

READ—also the following papers:—

No. 263 C.

Forwarded to the Examiner, Public Works Accounts, Madras, with the indent amended as directed in the above Government Order.

(Signed) J. C. LARMINIE,
Superintending Engineer, V Circle.

2nd October 1893.

From the Examiner, Public Works Accounts, dated 5th October 1893, No. 1245 D.

ORDER—dated 13th October 1893, No. 2607 W., Public Works.

The indent will be forwarded to the Home Government for compliance.

[Here enter No. 2608 W., dated 13th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, V Circle.
„ Superintending Engineer, II Circle.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2607 W.

OCTOBER.

Indent

The — for copper sheets for sheathing wooden lock gates on the Buckingham Canal, ordered to be forwarded to the Home Government for compliance.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

J. HANNAN, ESQ.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE DIRECTOR-GENERAL OF STORES,
INDIA OFFICE, LONDON.

SIR,

I am directed to forward, for favour of compliance, an indent for copper sheets for sheathing wooden lock gates on the Buckingham Canal.

2. The requisite certificate by the Examiner, Public Works Accounts, is endorsed on the original indent.

I have the honour to be,
Sir,
Your most obedient servant,
(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
13th October 1893.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

13th October 1893, No. 2608 W.

OCTOBER.

Indent

Forwarding for compliance an — for copper sheets for sheathing wooden lock gates on the Buckingham Canal.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Civil Works.
Account.

READ—the following paper :—

From the Deputy Secretary to the Government of India, Public Works Department (Account—Civil Works), dated Simla, the 7th September 1893, No. 157 A.C.W.

ORDER—dated 13th October 1893, No. 2615 W., Public Works.

In the letter recorded above, the Government of India brings to notice that allotments aggregating Rs. 1,98,190 have been made by this Government in the current official year for certain Provincial Civil Works for which there are no sanctioned estimates, and request that measures may be taken for the removal of the irregularity at an early date. The works in question are the following :—

	RS.
(*a*) Taluk office, Tenali	15,000
(*b*) Sub-Magistrate's office, Tangasséri	3,000
(*c*) Do. do. Anjengo	3,000
(*d*) Extending the second storey of the Accountant-General's office, Fort St. George	4,690
(*e*) Vakils' chambers to the Law Court, Palghat	2,000
(*f*) District Munsif's Court, Tirutturaippúndi	5,000
(*g*) Constructing a single central kitchen in the Central Jail at Rajahmundry	5,000
(*h*) Constructing a new cellular jail, Cuddalore	5,000
(*i*) Ten tiled huts, Moolapet	3,790
(*j*) Police office, Anantapur	21,640
(*k*) Sixty-five tiled huts for the Reserve police, Madura	16,250
(*l*) Constructing new Law College, Madras	50,000
(*m*) Constructing a store-shed, Calicut	5,000
(*n*) Constructing store-rooms at the Leper hospital, Madras ...	4,320
(*o*) Head Assistant Collector's residence, Bezwada	5,000
(*p*) Sub-Registrar's office, Chidambaram	4,500
(*q*) Constructing a road from Kallikot to Boirani *viâ* Atagada ...	15,000
(*r*) Improving the Chundale-Mysore frontier road	30,000
Total ...	1,98,190

2. Of the above items, estimates have been sanctioned for those specified below :—

Item.	Amount of estimate.	Authority.
	RS.	
(*a*)	38,320	G.O., No. 2328 W., dated 9th Sept. 1893.
(*d*)	6,892	" 449 W. " 20th Feb. "
(*f*)	15,700	" 2000 W. " 3rd Aug. "
(*l*)	3,41,360	" 2044 W. " 9th " "
(*r*)	37,400	" 2192 W. " 25th " "

3. The grants for the undermentioned items have since been withdrawn :—

(e) *Vide* G.O., No. 2336 W., dated 11th September 1893.
(n) „ „ „ 2125 W. „ 18th August 1893.
(p) „ G.Os., Nos. 1806 W. „ 10th July 1893, and 2204 W., 29th Aug. 1893.

4. The Superintending Engineer, IV Circle, has reported that estimates for items (b) and (c) have been submitted to Government through the Collector. This officer will be instructed in the Revenue Department to arrange for the early transmission of the estimates.

5. Of the budget grant of Rs. 5,000 for item (g), Rs. 2,000 have been resumed in G.O., No. 2414 W., dated 20th September 1893. The preparation of an estimate for the work has had to be deferred pending issue of a standard design for kitchens with circular cooking ranges in Central Jails. The design in question having lately been issued,* the Superintending Engineer, I Circle, will lose no time in submitting the requisite plan and estimate.

* *Vide* G.O., No. 1586 W., dated 15th June 1893.

6. The Superintending Engineer, V Circle, has already been directed to expedite the estimate for item (h)—*vide* G.O., No. 2288 W., dated 5th September 1893, paragraph 2. His attention will again be drawn to the matter.

7. The estimate for item (i) was forwarded to the Superintending Engineer, II Circle, for revision with memo. No. 3008 C., dated 4th September 1893. It should be resubmitted without delay.

8. Of the grant of Rs. 21,640 for item (j), Rs. 10,000 were withdrawn in G.O., No. 1996 W., dated 2nd August 1893. The estimate for this item, as also that for (k), are understood to be with the Inspector-General of Police, who will be called upon in the Judicial Department to expedite their transmission to Government.

9. By the reappropriation of funds sanctioned in G.O., No. 2212 W., dated 29th August 1893, the grant for item (m) has been reduced from Rs. 5,000 to 2,490. The existing provision has been allowed to stand pending information from the Judicial Department as to whether the shed in question is required. This information is awaited.

10. An estimate of Rs. 10,600 for item (o) has been submitted to the Government of India for sanction with letter No. 2195 W., dated 28th August 1893.

11. The Superintending Engineer, I Circle, will hasten the resubmission of the estimate for item (q) which was returned for revision with memo. No. 440 D., dated 21st June 1893.

12. Ordered that a copy of these Proceedings be forwarded to the Government of India, Public Works Department, for information.

[Here enter No. 2616 W., dated 13th October 1893.]

(True Extract.)

To Superintending Engineers.
„ the Consulting Architect to Government.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.
„ the Judicial „

ENDORSEMENT—dated 13th October 1893, No. 2616 W., Public Works.

Forwarded.

(By Order.)

Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

CIVIL WORKS.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1893, Nos. 2615, 2616 W.

OCTOBER.

Funds

Forwarding copy of Proceedings on letter from the Government of India requesting that measures be taken to remedy the irregularity of sanctioning allotments for works without sanctioned estimates.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From Colonel C. A. PORTEOUS, Inspector-General of Police, to the Chief Secretary to Government, dated Madras, 12th September 1893, No. 5253.

Adverting to G.O., No. 1138 W., dated 24th April 1893, communicated to me with your endorsement No. 997, dated 13th May 1893, I have the honour respectfully to invite the attention of Government to paragraph 1395 of the Public Works Department Code of 1886 according to which "no work should be included in the list of those selected for execution during the year, of which the design and estimate have not been sanctioned, or at least drawn up and submitted for sanction." If, following the course adopted in the order above quoted, the preparation of plans and estimates be restricted to those works only for which funds have been provided and which are proposed to be undertaken during the year, I beg to state that in many cases it will be impossible to utilize the provision made owing to the delay in the preparation of plans and estimates and in obtaining final sanction of Government for them, as they are often found to require revision after they are first prepared and submitted.

2. I have only very few works for which estimates have been sanctioned to include in the list for execution during the next year (1894–95) and a very large number for which plans and estimates have not been prepared.

3. In the above circumstances I beg that two lists may be passed by Government each year, one for works for which the preparation of plans and estimates may be taken in hand on the approval of Government being accorded as required by G.O., No. 2806 W., dated 7th October 1892, and the other for works (taken as a rule from the list of the former kind of the preceding year) for which plans and estimates have been or are about to be sanctioned and for which provision of funds may be usefully made as required by paragraph 1395 of the Public Works Department Code of 1886.

No. 1678, Judicial.

Transferred to the Public Works Department.

OOTACAMUND, 22nd September 1893.

(Signed) A. BUTTERWORTH, Under Secretary.

ORDER—dated 13th October 1893, No. 2617 W., Public Works.

In the letter recorded above the Inspector-General of Police suggests that two lists of Police works be prepared annually, viz.:—

(1) Works for which plans and estimates are to be prepared.

(2) Works for which estimates have been either sanctioned or submitted for sanction and for which allotments are proposed in the ensuing year's budget.

His Excellency the Governor in Council sanctions these proposals.

List (1) will be submitted as soon after the commencement of the official year as possible. It will be considered in detail in the Judicial Department, and plans and estimates will be called for in the Public Works Department for such of the works as may thus be selected.

List (2) would be the ordinary budget list prescribed in G.O., No. 525 W., dated 28th February 1893, and should be submitted through the Judicial Department so as to reach the Government by the 1st October. It will be considered in the Public Works Department in connection with the lists of other departments applying for allotments from the Provincial grant.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
" the Consulting Architect to Government.
" the Judicial Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2617 W.

OCTOBER.

Police Works

Proposals of the Inspector-General of Police relating to the preparation annually of two lists of —, one for works for which plans and estimates are to be prepared and the other for those for which allotments are proposed in the ensuing year's budget, approved with certain instructions.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

Office-note from the Examiner, Public Works Accounts, dated Madras, 8th May 1893, No. 168 A.

With reference to paragraph 2 of G.O., No. 897 W., dated 6th April 1893, I beg to point out that under Code, chapter I, paragraph 17, the following temporary establishment should be charged to Petty establishment and not, as directed, to Tools and Plant :—

(1) Watchman on Rs. 4 per mensem for tools shed in the Negapatam division.
(2) Stores lascar on Rs. 5 per mensem in the Tanjore division.

Office-note to the Examiner, Public Works Accounts, dated Madras, 13th July 1893, No. 2608 C.

In your office-note No. 168 A., dated 8th May 1893, it is pointed out that the store watchmen referred to in paragraph 2 of G.O., No. 897 W., dated 6th April 1893, should be charged to "Petty establishment" and not to "Tools and Plant" as directed in the Government Order, and you quote paragraph 17, chapter I of the Public Works Code as the authority for the change.

2. Prior to 1889 all store lascars were charged to "Tools and Plant, Repairs," as would be seen from the foot-notes (*d*), (*f*) and (*h*) to the proposition statement printed with G.O., No. 2196 W., dated 13th August 1889, and letter No. 1651, dated 9th September 1889, from the Superintending Engineer, III Circle, read in G.O., No. 3298 W., dated 20th November 1889. The Government of India Code rule quoted by you is not a new one and is the same as paragraph 19 of the Madras Public Works Code, and from the instances quoted above it will be observed that store lascars were charged to "Tools and Plant," no objection having been taken thereto with reference to the Madras Code rule.

3. The rule in question contemplates *servants who are employed on general duties and whose salaries are not provided for in any estimate for a work.* The store lascars are *not employed on general duties, their work being confined to looking after the safety of the stores*, and *their salaries are proposed to be provided for in the estimate for "Tools and Plant."*

4. Under paragraph 67, chapter VII of the Public Works Code, repair estimates should provide for all watchmen for the care of vacant buildings, guarding works, working sluices, &c., and from this it follows that the watchmen guarding tools should be charged to "Tools and Plant, Repairs." It is therefore considered that the instructions contained in paragraph 2 of G.O., No. 897 W., dated 6th April 1893, are in accordance with the spirit of this rule.

Office-note from the Examiner, Public Works Accounts, dated Madras, 1st August 1893, No. 376 C.

[Your office-note No. 2608 C., dated 13th July 1893.]

In my opinion the words "employed on general duties" in Government of India Code, chapter I, paragraph 17, mean that employés of any of the classes mentioned in that paragraph whose duties are so general in extent though specific in character that their pay cannot be debited to any particular office or estimate should be charged to Petty establishment.

2. Under any other interpretation, such, for instance, as that suggested in your paragraph 3, the pay of an artificer or of a storekeeper should not be charged to Petty establishment, because their duties are in one sense specific and *not* "general;" but the propriety of this incidence of charge has never, I think, been questioned.

3. With reference to your paragraph 2, I would, with all deference, submit that an audit officer cannot be bound to-day by errors in procedure in the past, and I would respectfully ask for a re-consideration of the matter under notice.

ORDER—dated 13th October 1893, No. 2618 W., Public Works.

Ordered that the Government of India be addressed.

[Here enter No. 2619 W., dated 13th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Examiner of Public Works Accounts.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13*th*.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2618 W.

OCTOBER.

Watchmen

Ordered that the Government of India be addressed in connection with the incidence of the pay of — employed in guarding tools and plant.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

J. HANNAN, ESQ.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

In forwarding the accompanying copy of the Proceedings of this Government, No 2618 W., dated 13th October 1893, I am directed to solicit the favour of opinion of the Government of India as to whether the pay of watchmen employed in guarding tools and plant can be charged to "Tools and Plant, Repairs."

2. It having been observed that the pay of several classes of establishment which should, under paragraph 67, chapter VII of the Public Works Code, be charged to "Works" had for several years past been debited to "Establishment," this Government ordered that the provisions of the aforesaid paragraph should in future be strictly adhered to. It was accordingly decided that the pay of watchmen employed in guarding tools and plant should be charged to "Tools and Plant, Repairs."

3. The Examiner of Public Works Accounts, however, pointed out in his office-note No. 168 A., dated 8th May 1893, that this charge should, under paragraph 17, chapter I of the Public Works Code, be debited to "Petty establishment" and not to "Tools and Plant," and having been asked to reconsider his objection in the light of the arguments put forward in my office-note No. 2608 C., dated 13th July 1893, he adheres to his original opinion.

4. The watchmen in question are not employed in supervising the execution of any work or in discharging any regular office duties, and it is therefore considered that the pay of the men cannot with propriety be charged to "Establishment." Under paragraph 67, chapter VII of the Code, repair estimates should provide for all watchmen for the care of vacant buildings, guarding works, working sluices, &c., and this Government considers that, in accordance with the spirit of this rule, the pay of watchmen employed in guarding tools and plant should be charged to "Tools and Plant, Repairs."

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch,

OOTACAMUND,
13th October 1893.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13*th*.

Recd. *Encl.*

13th October 1893, No. 2619 W.

OCTOBER.

Watchmen

Requesting an expression of opinion as to whether the pay of — employed in guarding tools and plant can be charged to "Tools and Plant, Repairs."

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From the Deputy Secretary to the Government of India, Public Works Department (Account—General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 26th Sept. 1893, No. 159 A.G.

[*Classification of Roads.*]

I am directed to forward copy of a letter No. 327 A.–1259, dated 12th ultimo, from the Government of Bombay, with enclosures, bringing to notice that the classification of roads prescribed in Public Works Department Code, volume II, appendix VI, page xxviii, is insufficient, and to request that the Government of India may be informed whether, in the opinion of the Government of Madras, any change in the present classification is considered necessary, and if so, what classification is preferred.

ENCLOSURES.

From the Acting Secretary to the Government of Bombay, Public Works Department, to the Secretary to the Government of India, Public Works Department, dated 12th August 1893, No. 327 A.–1259.

I am directed to submit, for the consideration of the Government of India, the insufficiency of the existing classification of roads prescribed in Public Works Code, volume II, appendix VI, and which necessitates the inclusion of roads under heads which cannot properly describe the state or nature of the road.

2. The difficulties referred to will be clearly understood from a perusal of the reports marginally noted, copies of which I am directed to forward for information, and to say that this Government would be inclined to recommend the classification proposed by Colonel Osborn, R.E., except that in classes III and IV, instead of "murum" the more general and inclusive term "*unmetalled*" roads should be used.

No. 423, dated 24th January 1893, from the Executive Engineer, Ahmednagar.
No. 1951, dated 17th April 1893, from the Executive Engineer, Surat and Broach.
No. 1845, dated 21st April 1893, from the Chief Engineer, Northern Division.

From G. OWEN DUNN, Esq., C.E., Executive Engineer, Ahmednagar District, to the Superintending Engineer, Central Division, Poona, dated 24th January 1893, No. 423.

As desired in your No. D-27 of the 17th instant, I have the honour to state that I am quite in accord with the Executive Engineer, Poona District, as to the classification of our roads being very inaccurate. The fault is entirely due to the method of classifying them; there are not enough classes; there is nothing (for instance) between "murum roads drained throughout

but the large rivers not bridged " and " village or cleared roads," whereas nearly every road in this district comes, strictly speaking, between these. Not only are the large rivers not bridged but the ordinary nalas are not bridged either except in a few cases. This is so on every road in this district with the single exception of the Nagar-Sirur road, which is metalled and drained throughout.

I would suggest a revised classification on the following lines :—

A. Metalled Roads.

1st Class.

(Drained and bridged throughout).

2nd Class.

(Drained throughout but large rivers not bridged).

3rd Class.

(Partially drained only).

B. Murum Roads.

1st Class.

(Bridged and drained throughout).

2nd Class.

(Drained but large rivers not bridged).

3rd Class.

(Partially drained only).

4th Class.

(Banked and surfaced but not drained).

C. Cleared Roads.

(Neither banked nor surfaced).

1st Class.

(Having drainage works over bad nalas).

2nd Class.

(Entirely undrained).

This would make nine classes instead of five as now, and would, I think, meet every possible style of road. If a murum road were in process of being metalled it would be classified under B in the proper class until the metalling is finished, when it would be transferred to the A classification. If a definite length of a road be metalled and the rest murumed only, then the two lengths should appear, one under A and the other under B, under the same name, but with the mileage specified.

From the Executive Engineer, Surat and Broach, to the Superintending Engineer, Northern Division, Bombay, dated 17th April 1893, No. 1951.

With reference to your circular No. 1375, dated the 21st ultimo, I have the honour to state that the present classification of roads is insufficient and might be revised with advantage. The Executive Engineer, Ahmednagar District's suggestion to divide the roads into nine classes appears to me to provide for nearly every sort of road in the Presidency ; but it appears to me there is no necessity to have separate classes for " metalled roads drained throughout but large rivers not bridged " and " metalled roads partially drained only," as the former is included in the latter, which seems to me to be quite enough. For instanse, a metalled road may have one or two large rivers bridged and one or two unbridged ; it would hardly be correct to class it as metalled road drained throughout but large rivers *not* bridged, while it can properly be included in the more comprehensive class of metalled road partially drained and bridged. In the same manner class 2 of murum roads in Mr. Dunn's classification might, I think, be omitted, as it will be included in class 3, viz., murum roads partially bridged and drained.

2. There is one road in these districts, viz., that from Broach to Jambusar, which is neither murumed nor metalled (except a short length near Broach), but is raised and bridged and drained throughout almost. This road can neither be correctly put in any of the present five classes, nor in any of the classes proposed by Mr. Dunn.

3. I think that the classes under different heads as A, B, C would be a little confusing and would suggest that they may be classed consecutively as at present without any sub-classes.

4. For the above reasons I would propose the following classification :—

Class I.—Metalled roads, bridged and drained throughout.
Class II.—Metalled roads, partially bridged and drained.
Class III.—Murumed roads, bridged and drained throughout.
Class IV.—Murumed roads, partially bridged and drained.
Class V.—Raised roads, partially drained and bridged but not surfaced.
Class VI.—Cleared roads, partially drained and bridged.
Class VII.—Cleared roads, entirely undrained.

Memo. by Lieutenant-Colonel OSBORN, R.E., Superintending Engineer, Northern Division, dated 21st April 1893, No. 1845.

With reference to Government memorandum No. 407-A of 18th March 1893 and accompaniments, the Superintending Engineer, Northern Division, has the honour to forward to Government the opinions of the Executive Engineers of his division noted in margin as regards classification of roads.

No. 1643 of 11th April 1893 from the Executive Engineer, Presidency.
No. 1346 of 13th April 1893 from the Executive Engineer, Thana.
No. 1951 of 17th April 1893 from the Executive Engineer, Surat and Broach.
No. 1716 of 28th March 1893 from the Executive Engineer, Kaira.
No. 1541 of 23rd March 1893 from the Executive Engineer, Ahmedabad.

2. The Superintending Engineer agrees with the opinions expressed by the Executive Engineer, Surat and Broach, and thinks that all roads not fully bridged and drained can be best described as partially bridged and drained.

3. Another class of roads moreover is brought to notice by two Executive Engineers, viz., one banked and bridged but unsurfaced.

4. Roads surfaced with kunker and hard burnt brick must, of course, be classed with murum roads, but there are certain roads surfaced with gravel which hold an intermediate position between metal and murum and vary much in quality. Such roads, I think, must be classified by the Executive Engineer to the best of his judgment under one or other of the given heads.

5. Doubtless other classes of roads will be brought to notice (for instance, the grass surfaced roads in Sind), but as regards the Northern Division the Superintending Engineer is of opinion that the following classification may be adopted :—

Class I.—Metalled, bridged and drained throughout.
Class II.—Metalled, partially bridged and drained.
Class III.—Murumed, bridged and drained throughout.
Class IV.—Murumed, partially bridged and drained.
Class V.—Banked and surfaced but not drained.
Class VI —Banked but not surfaced, partially bridged and drained.
Class VII.—Cleared, partially bridged and drained.
Class VIII.—Cleared only.

ORDER—dated 18th October 1893, No. 2620 W., Public Works.

Communicated to Superintending Engineers and the Local and Municipal Department for remarks.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
„ the Local and Municipal Department.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1893, No. 2620 W.

OCTOBER.

Classification of Roads

Letter from the Government of India forwarding correspondence regarding the insufficiency of the existing — as prescribed in the Public Works Code, and requesting to be informed whether any change is necessary, and if so, what classification is preferred, communicated to Superintending Engineers and the Local and Municipal Department for remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From H. A. STUART, Esq., Acting Collector of North Arcot, to the Secretary to Government, Public Works Department, dated Palmanér, 30th August 1893, Ref. on Genl. Eng. No. 5260.

Taluk—Wandiwash.
Village—Vaccadai.

I have the honour to forward herewith a draft declaration regarding the acquisition of the lands in the village noted in the margin, and to request that you will be good enough to cause the same to be published in the *Fort St. George Gazette*. The Public Works Department has already taken up the land after paying the value thereof to the owners under private negotiation. As the negotiation has taken place subsequent to the G.O., No. 408 R., dated 6th May 1891, which requires that all lands required for public purposes should invariably be acquired under the Act, formal acquisition is necessary. The action of the officers of the Public Works Department in taking possession of the land was irregular and this was pointed out to the Executive Engineer, North Arcot division.

No. 3029 C.

Referred to the Superintending Engineer, IV Circle, for explanation as to the purpose for which the bungalow in question is required and as to why the land was taken up by the Public Works Department by private negotiation in contravention of G.O., No. 1536 W., dated 5th June 1891.

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.

7th September 1893.

From H. E. CLERK, Esq., Executive Engineer, North Arcot division, to the Superintending Engineer, IV Circle, dated 29th September 1893, No. 390 S.E.

In returning the papers received with your No. 491 N.A. of 14th September 1893, I have the honour to inform you that the bungalow at Vaccadai is required for inspection purposes. An estimate of Rs. 990 was sanctioned under Provincial Irrigation in Circle Register No. 182 of 1891–92. The land was purchased by the Sub-Division officer by mistake, that is to say, he misinterpreted the orders sent to him on the subject from this office; he has been directed to be more careful in the future.

No. 385 E.W.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement, No. 3029 C., dated 7th September 1893, herewith returned.

(Signed) A. W. SMART, Lt.-Col., R.E.,
Superintending Engineer, IV Circle.

2nd October 1893.

ORDER—dated 14th October 1893, No. 2630 W., Public Works.

The notification will be returned to the Collector unpublished. The land in question has already been acquired by private negotiation, and an *ex post facto* application of the Act is useless. It is moreover incorrect to represent Vedachela Iyer as the owner of the land as appears from the draft notification. The owner is now the Secretary of State.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Collector of North Arcot, with one enclosure.
,, Superintending Engineer, IV Circle.
,, Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 14th.

Recd. *Encl.*

G.O., 14th Oct. 1893, No. 2630 W.

OCTOBER.

Land

Notification for the acquisition of certain — in Vaccadai village, Wandiwash taluk, required for the construction of an inspection bungalow by the Public Works Department, returned to the Collector of North Arcot unpublished with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From A. REA, Esq., Superintendent, Archæological Survey, Madras, to the Chief Secretary to Government, dated Bangalore, 26th September 1893, No. 359.

With reference to paragraph 3 of G.O., dated 7th October 1891, No. 2683 W., Public Works, I have the honour to submit budget estimate for conservation works proposed during 1894–95.

2. Two rough estimates have been received from Superintending Engineers amounting to Rs. 380, *i.e.*—

	RS.
Superintending Engineer, VI Circle — clearance of vegetation from the Fort at Dindigul	370
Superintending Engineer, I Circle — clearance of vegetation from the Buddhist caves and structural remains at Guntapalle, Gódávari district *	10
Total ...	380

* The rough estimate is marked 1893–94, but I think this is intended for 1894–95.

3. A sum of Rs. 600 would be sufficient to meet these and any other works which are likely to be proposed.

No. 1758, Financial.

Transferred to the Public Works Department.

OOTACAMUND,
4th October 1893.

(Signed) A. T. PRINGLE,
Assistant Secretary.

ORDER—dated 16th October 1893, No. 2638 W., Public Works.

Communicated to Superintending Engineers and the Consulting Architect to Government for information.

2. A sum of Rs. 600 will be provided in the Provincial Civil Works budget for 1894–95 for the conservation of archæological works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
,, the Consulting Architect to Government.
,, the Examiner, Public Works Accounts.
,, the Financial Department.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16*th*.

Recd. *Encl.*

G.O., 16th Oct. 1893, No. 2638 W.

OCTOBER.

Budget Estimate

Orders on the — of conservation works during 1894–95.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

Proceedings of the Board of Revenue (Land Revenue,) dated 7th July 1893, Mis. No. 4005.

Read—the following letter from G. D. WYBROW, Esq., Superintending Engineer, I Circle, to the Collector of Gódávari district, dated Dowlaishweram, 6th June 1893, No. 636 G.D.

As directed in paragraph 4 of G.O., No. 461 W., dated the 22nd February 1893, I have the honour to forward herewith a plan and supplemental estimate, amounting to Rs. 860, for constructing a latrine at the taluk cutcherry at Ellore, and to request that you will be so good as to transmit the same to Government for sanction.

2. The estimate requires submission to Government, as the total amount to be sanctioned is beyond my powers of sanction.

No. 198.

Submitted to the Board of Revenue (Land Revenue) in reference to paragraph 4 of G.O., No. 461 W., dated 22nd February 1893, for sanction.

(Signed) S. H. WYNNE,
Collector.

27th June 1893.

Resolution—dated 7th July 1893, Mis. No. 4005.

Submitted to Government with reference to G.O., dated 16th March 1893, Mis. No. 1083, R. D., communicating G.O., No. 461 W., dated 22nd February 1893.

(A true Copy and Extract.)

(Signed) R. C. C. CARR,
Acting Secretary.

No. 1444 R.

Transferred to the Public Works Department.

OOTACAMUND,
21st July 1893.

(Signed) R. H. CAMPBELL,
Ag. Under Secretary.

From G. D. WYBROW, Esq., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 22nd September 1893, No. 1573 G.D.

With reference to your memorandum No. 793 D., dated the 4th instant, I have the honour to forward herewith a fresh supplemental estimate for Rs. 690 prepared in accordance with the instructions given therein for constructing a latrine to the Taluk office at Ellore.

2. I beg to add that the nature of the soil has already been noted on the plan as "patimatti," which means made-earth; the same is now entered in red ink.

3. I may also add that the second collar was allowed to prevent unnecessary thrust on the pillars on which the roof is supported.

ORDER—dated 16th October 1893, No. 2640 W., Public Works.

The estimate, amounting to Rs. 690 as reduced by the Superintending Engineer, for constructing a latrine to the Taluk office at Ellore in the Gódávari district, is sanctioned as supplemental to the estimate of Rs. 36,200 sanctioned in G.O., No. 461 W., dated 22nd February 1893.

2. This sanction has been registered as Provincial No. 98 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, I Circle,
with 3 enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16th.

Recd. *Encl.*

G.O., 16th Oct. 1893, No. 2640 W.

OCTOBER.

Latrine

Estimate of Rs. 690 for constructing a — to the Taluk office at Ellore in the Gódávari district, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

Office-note from the Examiner, Public Works Accounts, dated Madras, 4th October 1893, No. 1236 A.

With reference to G.O., No. 2479 W., dated the 27th September 1893, I beg to state, for the information of the Government of India, that the lascars hitherto have been permanent and pensionable, and as there has been no saving in consequence of the transfer of these men from the regular to the works establishment, they are ineligible to any compensation retiring allowance unless the rule in Civil Service Regulations, article 471, requiring that there should be a saving which should always exceed the cost of pension is relaxed in this particular case by the Government of India.

ORDER—dated 16th October 1893, No. 2642 W., Public Works.

Ordered that the report be forwarded to the Government of India.

[Here enter No. 2643 W., dated 16th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Examiner, Public Works Accounts.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16th.

Recd. *Encl.*

G.O., 16th Oct. 1893, No. 2642 W.

OCTOBER.

Establishment

Report by the Examiner, Public Works Accounts, in regard to the transfer to "Works" of certain classes of inferior servants hitherto charged to "Establishment" and to grant of compensation retiring gratuities to them, ordered to be forwarded to the Government of India.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

LETTER—from

J. HANNAN, Esq.,

Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

In compliance with your letter No. 2350 G., dated 12th September 1893, I am directed to forward herewith the required report * by the Examiner, Public Works Accounts, in regard to the transfer to "Works" of certain classes of inferior servants hitherto charged to "Establishment," and, with reference to the rule in article 471 of the Civil Service Regulations, to invite attention to the concluding sentence of my letter No. $\frac{1927}{A}$ W., dated 25th July 1893, from which it will be seen that the difference between gratuities now payable and the capital value of prospective pensions will in all probability result in a considerable saving to Government.

* Procs. of Govt., No. 2642 W., dated 16th October 1893.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
16th October 1893.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16th.

Recd. *Encl.*

16th October 1893, No. 2643 W.

OCTOBER.

Establishment

Forwarding, with remarks, the report by the Examiner, Public Works Accounts, in regard to the transfer to "Works" of certain classes of inferior servants hitherto charged to "Establishment" and the grant of compensation retiring gratuities to them.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From W. P. AUSTIN, Esq., I.C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 15th September 1893, No. 1870.

I have the honour to submit, for the information of Government and the Right Honorable the Secretary of State for India, a report upon the Madras Harbour for the quarter ending 30th June 1893.

2. During this period 179 vessels of 318,593 net registered tonnage have entered the harbour, and 12 vessels of 4,587 net registered tonnage have anchored outside. This shows an increase of 19 vessels with a tonnage of 37,171 tons as compared with the corresponding quarter of the previous year.

3. Appended are returns of imports and exports for the quarter under report (1st April to 30th June 1893) as compared with the corresponding quarter of 1892–93.

4. These returns show that there has been an increase of the following goods imported and exported, viz., coal, piece-goods, kerosine case oil, window glass, galvanized iron and timber imported; and in cotton, ground-nuts, jaggery and turmeric exported; while there has been a decrease in the quantities of food-grains and railway stores imported; and of coffee, cotton twist, hides and skins, exported.

5. The quantity of coal imported is steadily on the increase, almost the whole of which is used on the Kolar Gold fields. During the quarter 29 steam-boilers of large power were imported which will probably cause a still larger consumption of coal as fuel during the remainder of the year.

6. I annex statements of receipts and charges, and it is satisfactory to note that the revenue collected during the quarter was Rs. 9,876–8–0 in excess of that collected during the quarter April—June of last year, considering that trade in general has been very dull.

7. The year opened with a credit balance of Rs. 11,65,852, of which Rs. 7,93,157 were invested in Government 4 per cent. paper of the par value of Rs. 8 lakhs. On the 30th June the Trust had to credit in the Bank of Madras Rs. 55,013, cash in office Rs. 723, and invested in 4 per cent. Government paper, Rs. 8,91,390, of the par value of Rs. 8,95,000, a total of Rs. 9,47,127. The diminution of the credit balance by Rs. 2,18,725 being accounted for by the payment of Rs. 3,18,478, interest on loan and repayment (under sections 30–31). The quarter under review has therefore provided one lakh of rupees towards meeting the liabilities of the year next ensuing.

8. With regard to the progress made upon the construction of the Harbour, I submit herewith the plans which accompanied the engineer's report for the quarter.

9. The permanent bonded block work at the north pier was completed during the quarter, and of the six temporary courses of block work required for compressing the base upon which the cylindrical caisson is to be placed, two were set.

10. At the south pier one course of blocks was set, advancing the structure by 5′ 4½″, the greater part of available working days having been taken up in dredging and raising by divers the excess rubble stone and pieces of broken blocks.

The wave-breaker screen has been brought up to its full sanctioned width at both piers and in line with the last courses set, 23 blocks having been deposited at the north and 41 at the south pier.

The apron or protection to rubble base at both piers has been proceeded with as opportunity offered.

ENCLOSURES.

Statement of Receipts and Charges from 1st April to 30th June 1893.

	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Opening balance—									
Government securities (par value 8,00,000)	...			7,93,157	0	10			
1. Cash in the Bank of Madras ...	3,71,724	13	1						
2. General cash in office	469	14	8						
3. Advance for contingencies ...	500	0	0						
				3,72,694	11	9			
							11,65,851	12	7
Receipts.									
I. Harbour Dues collections—									
Beach import	39,343	15	5						
Pier do.	15,849	3	8						
Beach export	8,534	11	3						
Pier do.	12,556	13	6						
Storage	675	6	5						
Wharfage	1,930	0	0						
Cranage	12,581	5	11						
Penalties (section 84)	......								
Demurrage	......								
				91,471	8	2			
Porterage—									
Beach	16,206	13	5						
Pier	9,171	15	0						
Haulage	3,107	14	0						
Miscellaneous	184	5	11						
				28,671	0	4			
Miscellaneous—									
Harbour Trust properties	286	14	0						
Provisions	152	3	6						
Water collection	1,129	0	0						
Sundries	......								
				1,568	1	6			
							1,21,710	10	0
II. Contribution from Port funds ...	......			......			......		
III. Interest realized on Government of India 4 per cent. promissory notes.	......			......			5,059	4	0
Amount refunded from Construction funds in repayment of advances made from time to time from revenue during the current official year 1893–94	......			......			......		
Nominal value of Rs. 20,000, Government securities (Port fund investments) transferred by the Accountant-General under paragraph 3, G.O., dated 27th April 1893, No. 411, Financial	......			......			20,000	0	0
				Total ...			13,12,621	10	7
Charges.									
I. Interest (under section 30) ...	......			2,18,477	13	7			
II. Repayment of loan for construction of Harbour	......			1,00,000	0	0			
							3,18,477	13	7
III. Establishment, &c.—									
1. Chairman's salary	1,200	0	0						
2. Secretary's do.	2,400	0	0						
3. Correspondence department ...	913	0	5						
4. Accounts department ...	1,525	9	9						
5. Cash department	1,098	12	4						
6. Traffic department (shore staff).	6,290	11	8						
7. Preventive service	3,045	0	0						
8. Do. (boatmen) ...	293	3	8						
9. Contribution to Government for pensions	88	9	3						
10. Fees to Trustees	1,590	0	0						
11. Contribution to Provident fund.	12	15	10						
				18,457	14	11			

Statement of Receipts and Charges from 1st April to 30th June 1893—cont.

	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Charges—cont.									
IV. Contingencies—									
(*a*) Subject to regular audit—									
Postage	20	7	2						
Receipt stamps	55	13	0						
Telegrams	7	4	0						
Furniture	......								
Fees for audit	......								
Law charges	1,197	14	0						
Stationery and printing	638	14	3						
Advertisement charges	214	8	0						
Uniform for preventive service ...	658	8	0	2,793	4	5			
(*b*) Admissible without detail audit—									
Overtime fees to establishment ...	1,045	2	11						
Do. preventive service and boatmen	715	0	1						
Miscellaneous	2,749	15	4	4,510	2	4			
V. Refunds	......			916	2	4			
VI. Petty construction and repairs—									
New works	......								
Repairs	900	2	7						
Tools and plant	384	6	5	1,284	9	0	27,962	1	0
VII. Porterage—									
1. Coolies, pier	3,984	10	5						
2. Do Beach and Custom House	12,337	3	0						
3. Madras Railway Company ...	1	6	0						
4. South Indian Railway Company	33	11	0						
5. Coasting cargo	287	5	4						
6. Boat-hire	......								
7. Claims for losses and damage.	67	6	11						
8. Engine charges	285	4	4						
9 Refunds	62	11	3						
10. Steam crane charges	202	1	6						
11. Contribution to Cooly Provident fund	261	15	6	17,523	11	3			
Contingencies—									
(*a*) Subject to regular audit—									
Postage	......								
Receipt stamps	4	2	0						
Telegrams	......								
Furniture	......								
Tarpaulins	707	8	0						
Law charges	......								
Stationery and printing	30	6	11						
Advertisement charges	......								
Lighting pier and yards	420	2	0	1,162	2	11			
(*b*) Admissible without detailed audit—									
Miscellaneous	......			368	10	5	19,054	8	7
Advances to construction account	......			......			......		
Total Expenditure ...							3,65,494	7	2
Balance on the 30th June 1893—									
Government securities (par value Rs. 8,95,000)	......			*8,91,390	6	10			
Cash in the Bank of Madras ...	55,013	5	9						
General cash in office	223	6	10						
Advance for contingencies ...	500	0	0	55,736	12	7	9,47,127	3	5
Total ...							13,12,621	10	7

* Includes only the nominal value of Rs. 20,000 Government securities transferred by the Accountant-General (Port Fund investments).

MADRAS,
13th July 1893.

(Signed) H. E. HOPE-ROSS,
Chief Accountant.

I.—Statement of goods imported from Foreign Ports.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Apparel and effects	Packages	851	1,347	212	154	429	273	1,068	146
Alum	Barrels	1,233	326	156	50	378	102	686	477
Asphalte, tar and pitch	Casks	3,623	4,439	913	392	596	428	2,329	592
Acids	Cases	1,362	1,854	799	304	129	176	1,408	821
Arms and guns	,,	126	442	122	28	49	12	221	106
Arrack	Casks	346	884	146	312	247	128	833	199
Blankets	Bales	58	119	4	16	143	5	168	3
Beef and pork	Cases	..	36	..	..	..	..	..	..
Bricks	100	222	1,021	170	..	231	150	551	50
Beer	Cases	6,606	6,123	2,242	2,312	1,841	2,315	8,710	1,755
	Barrels	110	1,140	639	138	433	497	1,707	274
	Hogsheads	8,217	6,808	2,517	1,579	2,159	1,985	8,210	915
Boiler	No.	32	51	7	6	10	9	32	19
Corks	Bundles	88	88	14	13	18	27	72	3
Canvas	Bales	244	121	59	38	34	62	193	47
Candles	Cases	18,515	16,637	8,329	9,047	7,366	6,275	31,017	4,508
Colours	,,	2,698	3,838	465	1,147	1,177	497	3,286	1,098
Confectionery, provisions and oilmanstores	,,	17,896	23,395	5,047	4,253	8,321	4,468	22,129	4,893
Crockery and glassware	Crates and casks.	4,099	4,538	1,104	739	802	1,172	3,817	913
Chalk	Barrels	178	370	15	50	25	50	140	10
Cement	Casks	7,049	14,522	4,315	1,430	968	656	7,369	1,325
Cast-iron pipes and tubes.	Tons	950	335	435	370	376	255	1,436	606
Camphor	Tubs	1,556	4,739	1,091	1,132	1,067	1,559	4,349	1,623
Coal, coke and fuel	Tons	16,688	..	..	..	..	..	..	..
Coal	,,	..	33,686	17,283	10,494	11,265	10,466	49,508	15,641
Coke	,,	..	578	101	510	130	637	778	183
Fuel	,,	..	..	..	..	..	2,953	2,953	..
Crackers	Cases	1,134	470	..	724	115	1	640	..
Copper plates and tiles	No.	1,594	4,802	90	109	145	177	521	784
Corrugated iron	Packages	2,913	805	506	486	845	676	2,512	1,040
Dynamite	Cases	9,230	13,040	3,220	310	405	4,100	8,035	1,412
Earthenware	Crates	1,913	2,318	220	376	920	370	1,886	510
Fire clay	Casks	23	2,768	56	..	148	68	272	..
Flour	Bags and barrels.	367	1,317	296	275	171	79	821	202
Flannel	Bales	58	54	3	9	9	9	30	14
Gunpowder	Packages	1,746	6,667	1,100	2,608	387	1,892	5,987	1,869
Harmonium	Cases	9	30	..	3	14	10	27	19
Hardware	,, and casks.	3,954	8,234	1,906	1,331	1,068	2,478	6,783	2,476
Hops	Packages	129	129	19	17	8	20	64	31
Iron	Tons	18,138	13,737	6,946	4,923	1,861	4,199	17,929	6,870
Iron safes	No.	241	296	90	36	10	14	150	40
Kerosine oil	Cases	345,000	397,862	28,400	25,835	82,664	114,421	251,320	86,000
	Tons	..	..	..	..	..	3,361	3,361	..
Lime water	,,	45	..	..	..	..	..	..	..
Malt	Bags	354	445	88	300	7	12	407	6
Millinery and haberdashery	Cases	1,356	1,609	233	551	452	330	1,566	213
Matches	,,	7,916	10,665	2,639	2,277	1,579	2,630	9,125	2,404
Machinery	Tons	1,600	3,099	886	707	678	970	3,241	697
Nails	Kegs	13,287	13,744	4,471	664	2,237	3,175	10,547	3,460
Oil and turpentine	Drums	6,942	7,225	2,365	1,903	1,680	952	15,500	734
Piece-goods. Piece-goods	Cases and bales	82,649	85,079	12,281	11,045	13,477	14,748	51,551	14,237
Piece-goods. Twist				5,000	4,282	5,706	3,676	18,664	5,595
Paper	Bales	4,646	6,546	1,857	1,021	1,128	1,512	5,518	2,123
Piano	No.	123	153	28	28	25	18	99	27
Printing types	Cases	263	492	409	138	112	68	727	80
Pig lead	No.	1,420	2,198	266	342	309	181	1,098	1,074
Paint	Kegs	7,457	7,758	3,833	3,652	1,140	1,632	10,257	3,018
Rattan	Bundles	883	3,823	2,117	662	573	2,317	5,669	296
Soaps	Cases	1,998	1,650	172	140	210	448	970	459
Salt	,,	225	383	104	30	115	80	329	5
Steel	Cases and casks.	874	864	281	188	1,278	1,596	3,343	426
Steel bundles and bars	No.	5,746	11,261	3,836	421	2,508	3,636	10,401	1,827
Steel hoop	Bundles	12,566	5,567	1,189	..	..	408	1,597	3,386
Shovels	,,	747	275	197	209	35	58	499	2
Sodawater bottles	Crates	840	1,395	462	489	473	344	1,768	241
Sulphur	Casks	633	752	335	66	34	..	435	225
Shot	Kegs	240	177	..	1	20	35	56	70
Sundries	Packages	48,364	48,408	6,143	5,947	11,490	10,026	33,606	11,803
Specie	No.	1,115	1,229	253	203	208	224	888	191
Sugar	Bags	2,250	2,152	248	20	774	154	1,196	2,571
Slates and pencils	Cases	1,101	1,242	161	248	160	279	848	407
Spelter	Cakes	11,342	836	2,144	..	3,266	3,376	8,786	3,601
Saw	Cases	68	70	30	4	6	8	48	22
Twine and rope	Bales and coils	183	438	65	26	339	25	455	375
Tin plates	Boxes	4,996	5,608	845	600	866	2,338	4,649	2,321
Wine and spirits	Cases	40,857	37,877	10,793	11,896	10,057	11,993	44,739	9,819
	Casks	2,739	863	111	327	32	188	658	112
	Puncheons	149	369	109	54	332	238	733	208

I.—Statement of goods imported from Foreign Ports—*cont.*

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Window glasses ..	Cases	8,297	5,972	2,779	2,705	1,579	4,937	12,000	5,874
White and red lead ..	Kegs	495	681	144	213	319	275	951	201
Yellow metal ..	Cases	4,309	3,076	451	447	1,139	1,324	3,361	633
Zinc sheets	Packages ..	595	2,749	476	371	361	482	1,690	311
Horses	No.	611	816	3	297	336	323	959	..
Ponies	,, ...	17	70	3	53	32	24	112	..
Cows	,, ...	..	59	..	5	6	4	15	..
Dogs	,, ...	10	13	..	..	3	11	14	..
Elephants	,, ...	25	10	..	..	..	7	7	6
Two-wheeled carriage ..	..	..	..	..	4	4	..	8	2

II.—Statement of stores imported by the Madras Railway Company.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Stores	Packages ..	51,879	82,105	13,429	2,111	7,293	49,601	72,434	10,730
	Tons ..	467	3,605	389	..	110	..	499	6
Fuel	,, ...	4,673	..	..	..	..	..	..	..
Coke	,, ...	839	1,437	141	..	..	403	544	417
Coal	,, ...	4,301	27	..	..	..	300	300	..
Timber	,, ...	3,800	2,477	569	42	73	1,399	2,083	..
Fire brick	100	165	115	..	..	98	232	330	..

III.—Statement of stores imported by the South Indian Railway Company.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Stores	Packages / Tons	618,937	68,282	5,718	4,901	4,241	7,311	22,171	1,268 / 22
Fuel	,, ...	..	..	..	..	..	..	..	..
Coke	,, ...	..	14	..	..	..	..	..	..
Coal	,, ...	5,980	..	..	..	..	..	..	..
Timber	,, ...	..	..	..	..	..	..	..	..
Boiler	No.	55	4	..	5	..	7	12	10

IV.—Statement of goods imported from Coast Ports.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Apparel and effects ..	Packages ..	634	451	105	55	78	105	343	103
Alum	Barrels ..	..	10	5	76	106	..	187	4
Acids	Cases	99	89	11	5	17	92	125	71
Animals	No.	210	..	10	..	..	..	10	..
Arms and guns ..	Cases	10	45	4	1	5	2	12	2
Boilers	No.	7	2	..	..	..	..	..	..
Bricks and tiles ..	100	1,630	1,396	..	10	47	..	57	517
Coffee	Bags	349	379	366	95	14	120	595	236
Candles	Cases	..	..	..	..	..	..	..	..
Colours	Do.	1,541	1,225	378	861	167	125	1,531	376
Crockery and glassware ..	Do.	305	322	96	87	108	175	466	97
Coal	Tons	14,884	13,249	600	3,692	1,985	7,515	13,792	3,750
Coke	Do.	..	..	..	..	..	..	..	..
Carpets	Bales	187	77	20	25	22	27	94	25

IV.—Statement of goods imported from Coast Ports—*cont.*

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals 1892–93.	Quarter ending 30th June 1893.
Camphor and benjamin ..	Tubs	4,640	682	248	419	433	206	1,306	300
Copra	Bags	..	32	..	..	..	..	..	122
Crackers	Cases	..	..	..	..	..	..	..	..
Copper	Do.	..	1,667	356	384	168	28	936	32
Do.	Tiles and ingots.	1,071	96	..	..	421	..	421	245
Cutch and lac	Packages ..	5,703	4,415	369	725	1,540	557	3,191	1,255
Cocoanuts	No.	..	3	..	..	..	415	415	19
Earthenware	Crates ..	23	392	1,424	..	1,496	21	2,941	75
Do.	Pipes ..	..	2,626	886	2,339	300	2,790	6,315	614
Firewood	Tons	..	..	..	..	..	..	..	..
Flour	Bags & barrels ..	4,177	7,248	2,334	2,889	3,501	2,958	11,682	2,992
Gunnies	Bales	10,786	7,930	381	1,024	2,097	6,159	9,661	2,268
Gram and peas, &c. ..	Bags	225,739	271,682	73,695	109,441	112,513	84,496	380,145	92,145
Garlic	,, ...	8,523	2,945	20	970	225	..	1,215	1,097
Hardware	Cases	605	641	120	88	315	674	1,197	141
Horns	Bundles ..	681	880	239	311	244	186	980	130
Hides	Bales	6,936	6,127	3,351	2,311	2,133	1,744	9,539	1,587
Iron	Tons	400	231	48	49	96	100	293	37
Iron safes	No.	19	31	10	11	2	15	38	5
Kerosine-oil	Cases	..	..	..	..	..	..	..	500
Leaves	Bundles ..	5,574	6,508	773	1,522	1,030	417	3,742	1,576
Liquor	Cases	..	..	..	..	..	..	..	917
Machinery	Tons	251	158	15	6	37	21	79	14
Millinery and haberdashery	Cases	189	208	41	58	50	96	245	45
Oil and turpentine ..	Drums ..	2,846	8,340	1,686	1,357	1,197	2,129	6,369	1,787
Paddy	Bags	..	..	34,781	14,429	3,610	23,160	75,980	7,688
Piece-goods	Cases and bales.	3,028	3,802	514	963	1,592	1,687	4,756	1,095
Paper	Bales	3,985	3,128	662	1,138	1,522	1,576	4,898	1,886
Paint	Kegs	99	224	14	210	155	304	683	49
Piano	No.	5	15	4	4	1	3	12	2
Rice	Bags	223,751	1,147,048	76,303	45,699	26,031	57,143	205,176	26,328
Rose water	Cases	715	1,434	762	557	231	265	1,815	413
Seeds	Bags	12,044	30,406	7,998	6,745	4,798	6,206	25,747	6,942
Skins	Bales	5,387	6,199	1,130	948	1,006	1,968	5,052	1,591
Silk	,, ...	825	1,051	170	280	177	72	699	67
Sandalwood	Bundles ..	63	143	3	26	9	83	121	32
Sugar	Bags	2,134	1,381	158	190	227	291	866	468
Specie	No.	37	202	14	40	27	109	190	14
Sundries	Packages ..	40,653	47,533	13,376	10,059	12,379	11,323	47,137	912
Soap	Cases ..	363	445	6	..	17	17	40	5
Sulphur	Casks ..	..	471	334	..	137	73	544	216
Spice	Packages ..	3,674	359	182	68	313	177	740	47
Sodawater bottles ..	Crates ..	..	..	..	..	..	..	..	2
Twine and rope ..	Bales and coils ..	942	839	101	240	202	232	775	708
Tin plates	Boxes ..	708	1,807	93	289	303	227	912	234
Twist	Bales ..	1,338	1,126	209	600	168	170	1,147	208
Turmeric	Bags ..	10,751	7,224	1,086	1,515	1,107	1,269	4,977	1,517
Timber	Tons ..	16,850	15,137	2,590	2,586	2,044	3,375	10,595	3,272
Tea	Cases ..	4,785	1,321	2,272	864	261	14	3,411	2
Tamarind	Bundles ..	..	..	..	..	..	..	..	32
Yellow metal	Cases ..	809	6	193	107	197	45	542	1
Horses	No. ..	..	1	8	..	..	7	15	..
Two-wheeled carriages ..	No. ..	..	..	..	..	2	2	4	..
Four do. ..	No. ..	..	..	..	..	..	3	3	4

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V.—Statement of goods exported to Foreign Ports.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Beer and ale ..	Cases	..	18	2	..	..	..	2	1
	Casks	..	60	..	7	..	..	7	..
	Hogsheads ..	..	3	..	..	..	..	..	..
Cinchona bark ..	Bales	1,346	471	110	327	32	60	529	194
Chillies	Bags and bundles.	1,362	2,760	..	..	9	..	9	117
Cigars	Cases	942	1,249	146	139	92	179	556	118
Coffee	Bags	22,708	23,764	12,152	3,406	41	19,014	34,613	2,655
Cotton	Bales	77,922	48,202	8,512	8,387	6,422	2,819	26,140	9,411
Do. twist	Do.	8,271	4,229	2,294	2,907	5	60	5,266	412

V.—Statement of goods exported to Foreign Ports—*cont.*

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Coriander and omum seeds	Bags	1,385	8,218	361	260	899	294	1,814	2,131
Carpets	Bales	524	418	50	90	56	92	288	87
Coal	Tons	..	905	213	..	100	..	313	135
Deer horns	Packages ..	1,311	1,574	364	743	263	179	1,549	176
Explosive	Cases	..	21	..	1	..	..	1	..
Firewood	Tons	..	..	..	..	..	..	..	..
Four-wheeled carriages ..	No.	2	8	1	1	..	..	2	..
Ground-nuts	Bags	190,320	93,132	11,610	11,110	82	3,407	26,209	53,149
Gram, peas, &c. ..	,, ...	..	519	..	..	136	25	161	1,604
Horns, cow and buffalo ..	Tons	84	62	15	4	3	7	29	13
Hides, tanned	Bales & bundles.	16,460	21,848	5,444	7,352	3,898	5,118	21,812	1,351
Indigo	Cases & chests ..	24,453	14,622	2,762	2,781	10,802	9,588	25,933	1,262
Iron	Tons	..	2	..	..	11	..	11	13
Jaggery	Bags	34,135	28,985	13,736	..	6,443	36,493	56,672	29,713
Myrabolams	,, ...	2,576	235	60	..	31	..	91	563
Miscellaneous	Packages ..	16,335	37,808	8,290	8,889	4,641	6,727	28,547	6,039
Onions	Bags & baskets ..	12,022	21,964	4,458	935	24	200	5,617	4,753
Oil	Casks	50	434	18	4	25	9	56	5
Piece-goods	Bales & cases ..	5,843	6,205	1,675	1,281	1,540	961	4,857	1,663
Potatoes	Bags & baskets ..	2,284	2,437	157	..	115	10	282	773
Poonac	Bags	26,134	33,880	5,962	4,165	3,764	2,236	16,127	7,641
Piano	No.	3	41	5	2	3	..	10	3
Paddy	Bags	..	..	..	..	5	..	5	2
Rice	,, ...	2,059	1,138	1	..	2,639	589	3,229	3,936
Redwood	Tons	1,809	699	342	384	273	655	1,654	178
Seeds, gingelly and castor.	Bags	19,021	1,313	652	65	7,633	4,304	12,654	172
Skins, sheep and goat, tanned	Bales	31,209	32,194	7,435	10,035	7,207	9,386	34,063	6,470
Sandalwood	Bundles	1,728	1,534	43	..	1	286	330	459
Spirits and wine	Cases	..	332	..	18	1	22	41	19
	Casks	..	977	1	39	25	..	65	..
	Puncheons ..	..	..	..	..	..	..	..	..
Sugar	Bags	..	599	21	1	62	77	161	102
Specie	Boxes	55	94	21	..	9	18	48	2
Tamarind	Bundles	1,156	6,445	1,969	1,467	61	1,834	5,331	309
Turmeric	Bags	..	2,159	217	20	374	330	941	606
Tea	Cases	2,384	2,265	424	785	370	190	1,769	546
Two-wheeled carriages ..	No.	3	1	..	..	..	..	..	..
Wool	Bales	1,196	1,021	436	443	207	384	1,470	498
Yellow metal	Tons	..	107	..	..	100	..	100	67

VI.—Statement of goods exported to Coast Ports.

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Beer and ale ..	Cases	289	352	81	86	58	69	294	56
	Casks	159	159	15	10	45	24	94	..
	Hogsheads ..	47	7	1	5	9	26	41	79
Boiler	No.	..	..	..	..	..	..	..	1
Cinchona bark ..	Bales	..	395	..	84	..	..	84	..
Chillies	Bags and bundles.	4,592	2,064	1,264	1,126	280	237	2,907	956
Cigars	Cases	1,345	1,418	311	277	288	260	1,136	155
Coffee	Bags	605	507	806	334	198	111	1,449	183
Cotton	Bales	8,521	5,721	832	1,312	573	1,528	4,245	1,875
Cotton twist	,, ...	5,103	4,698	784	950	3,123	1,281	6,138	524
Coriander and omum seeds	Bags	4,783	2,970	1,531	1,012	582	3,877	7,002	898
Cement	Casks	..	..	..	..	8,611	297	8,908	54
Carpets	Bales	45	68	14	11	14	12	51	8
Coal	Tons	976	275	25	..	75	350	450	30
Deer horns	Packages ..	84	108	1	..	100	50	151	23
Explosive	Cases	55	2,668	315	32	26	958	1,331	16
Eggs	Pots	2,801	1,165	157	193	379	396	1,125	244
Firewood	Tons	..	2	..	..	..	..	..	..
Four-wheeled carriage ..	No.	34	21	9	5	5	12	31	10
Ground-nuts	Bags	61,463	27,790	7,797	731	2,352	6,959	17,839	5,046
Gram, peas, &c. ..	,, ...	3,568	521	66	587	33	540	1,226	66

VI.—Statement of goods exported to Coast Ports—*cont.*

—	Packages.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Horns, cow and buffalo ..	Tons	30	310	28	68	112	99	307	27
Hides	Bales and bundles ..	506	379	111	109	142	164	526	179
Indigo	Cases and chests.	412	165	..	16	600	200	816	512
Iron	Tons	850	2,244	885	1,517	26	183	2,611	197
Jaggery	Bags	..	258	86	4	35	1,323	1,448	76
Kerosine-oil	Cases	3,463	10,327	212	216	11	220	659	404
Myrabolams	Bags	535	1,054	1	6	12	272	291	199
Miscellaneous	Packages ..	36,308	50,510	12,262	11,366	12,071	33,885	69,584	12,504
Onions	Bags and baskets.	21,141	22,442	2,036	4,512	26,480	20,378	53,406	9,119
Oil	Casks	1,281	807	285	43	238	71	637	142
Piece-goods	Bales and cases.	6,259	5,615	1,566	2,336	1,779	2,970	8,651	1,154
Potatoes	Bags and baskets.	26,470	23,637	918	7,881	14,823	766	24,388	384
Poonac	Bags	4,752	4,770	6,023	3,355	3,951	8,852	22,181	6,097
Piano	No.	24	23	2	4	8	2	16	1
Paddy	Bags	11,426	..	..	250	1,300	7,256	8,806	250
Rice	,, ...	8,098	5,448	3,076	1,924	12,678	14,215	31,893	1,816
Redwood	Tons	..	119	48	639	6	..	693	2
Seeds, gingelly and castor	Bags	57,157	16,803	401	252	633	4,501	2,787	7,035
Skins, sheep and goat, tanned	Bales	1,271	721	90	166	253	537	1,046	239
Sandalwood	Bundles ..	1,856	153	54	9	162	31	256	466
Spirits .. {	Cases	3,049	2,982	1,255	772	1,023	733	3,783	771
	Casks	250	727	86	210	196	224	716	304
	Puncheons ..	54	13	1	2	95	91	189	64
Sugar	Bags	2,093	773	564	338	268	249	1,419	221
Specie	Boxes	154	236	169	132	169	40	510	13
Tamarind	Bundles ..	17,197	3,624	4,340	1,254	725	1,934	8,253	2,959
Turmeric	Bags	4,719	19,258	5,218	2,762	3,751	6,152	17,883	13,047
Tea	Cases	298	341	17	15	15	15	62	7
Two-wheeled carriage ..	No.	27	15	4	2	4	6	16	1
Wool	Bales	475	769	147	190	118	148	603	219
Yellow metal	Tons	47	53	12	4	51	..	67	67

VII.—Statement of stores, &c., imported by Government.

Department.	Description.	Class.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Accountant-General. {	Specie, silver.	Boxes.	1,176	403	100	..	370	112	582	90
	Do. copper.	,,	3,475	5,100	..	..	..	710	710	560
	Silver and copper ..	,,	..	..	..	..	..	..	..	..
	Notes ..	,,	8	32	..	..	17	2	19	..
	Packages ..	No.	..	27	..	1	..	..	1	..
State Railway .. {	Packages and pieces ..	,,	3	..	..	..	..	..	..	..
	Rails ..	,,	..	..	..	..	..	..	..	..
	Sleepers ..	,,	..	..	..	..	..	..	..	..
	Bridge works.	Tons	..	..	..	..	..	..	..	..
Public Works Department. {	Boilers ..	No.	..	2	..	..	..	..	..	..
	Coal ..	Tons	60	50	..	20	..	..	20	..
	Iron ..	,,	256	271	..	..	9	..	9	..
	Stores ..	Pkgs.	2,049	15,148	2,023	1,130	2,096	1,248	6,494	308
Ordnance .. {	Coal ..	Tons	939	..	..	..	..	..	..	..
	Ammunition.	Boxes	..	2,148	..	..	..	..	..	..
	Stores ..	Pkgs.	22,898	13,017	4,067	1,152	10,296	6,812	28,566	6,569
Madras Harbour Works. {	Cement ..	Casks	30,375	1,869	..	..	..	..	..	..
	Stores ..	Pkgs.	895	3,869	..	..	..	..	..	..
	Coal ..	Tons	586	..	..	..	..	..	..	..
Clothing	Packages ..	No.	1,527	1,983	589	635	709	391	2,324	507
Police	,, ..	,,	335	122	98	51	13	5	167	64
Salt Revenue ..	,, ..	,,	190	272	220	56	3	11	291	13
Post Office	,, ..	,,	1,739	1,119	198	249	129	282	858	138
Medical	,, ..	,,	1,250	1,779	415	50	32	510	1,007	897
Telegraphs ..	,, ..	,,	19,211	34,768	1,752	1,949	6,769	13,656	24,126	2,336
Stationery	,, ..	,,	611	732	19	107	783	288	1,197	69
Stamps	,, ..	,,	1,647	1,961	186	656	179	101	1,122	960
Commissariat ..	,, ..	,,	4,384	8,588	2,013	1,204	3,038	1,165	7,420	1,274
Gazette Press ..	,, ..	,,	2,414	161	7	126	11	5	149	64
Marine	,, ..	,,	511	729	117	107	509	147	880	77

VII.—Statement of stores, &c., imported by Government—*cont.*

Department.	Description.	Class.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Totals for 1892–93.	Quarter ending 30th June 1893.
Superintendent, Railway Mail Service ..	Packages ..	No.	..	..	..	..	..	..	..	..
Revenue Survey ..	,, ..	,,	32	297	73	133	1	1	208	8
Agriculture ..	,, ..	,,	292	380	209	101	6	4	320	10
Government Central Museum	,, ..	,,	10	15	3	2	3	2	10	2
Under Secretary to Government ..	,, ..	,,	94	235	439	28	20	17	504	17
Superintendent of Prisons	,, ..	,,	..	1	2	3	8	4	17	6
Revenue Board ..	,, ..	,,	139	424	..	15	12	6	33	3
Forests	,, ..	,,	1,318	1,196	2	1	1	6	10	1
Bank of Madras ..	Specie, silver.	Boxes	..	..	..	..	..	..	..	..
	,, copper.	,,	..	..	..	..	..	..	..	..
Presidency College ..	Packages ..	No.	40	28	7	..	2	6	15	1
School of Arts ..	,, ..	,,	..	3	..	..	..	1	1	..
Sanitary Commissioner	,, ..	,,	..	..	..	..	..	..	..	..
Inspector of Cattle Diseases	,, ..	,,	..	9	..	..	100	..	100	..
Chemical Examiner ..	,, ..	,,	32	31	2	6	16	7	31	5
Medical College ..	,, ..	,,	64	73	..	2	13	16	31	13
Deputy Collectors ..	,, ..	,,	14	9	1	10	2	2	15	3
Camp Equipage ..	,, ..	,,	..	..	..	..	..	..	..	..
Astronomer ..	,, ..	,,	6	23	2	7	4	..	13	5
Presidency Pay Master	,, ..	,,	13	2	5	3	..	..	8	..
Registration ..	,, ..	,,	3	7	1	3	..	..	4	..
Director of Public Instruction ..	,, ..	,,	5	9	..	137	2	..	139	1
Superintendent, Remount Depôt, Hosúr	,, ..	,,	..	..	..	..	300	300	600	150
Resident, Mysore, in Bangalore ..	,, ..	,,	..	..	..	..	1	1	2	3
Secretary for Berar, Hyderabad ..	,, ..	,,	..	..	..	..	6	1	7	11
H. E. Lord Wenlock, Government House, Madras	,, ..	,,	..	..	..	..	..	2	2	..
Judge, Civil City Court, Madras ..	,, ..	,,	..	..	..	..	..	1	1	..
Quarter Master-General	,, ..	,,	..	..	..	..	3	..	3	1
Registrar of High Court	,, ..	,,	..	..	..	..	1	..	1	1

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VIII.—Statement of stores, &c., exported by Government.

Department.	Description.	Class.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Total for 1892–93	Quarter ending 30th June 1893.
Accountant-General ..	Specie, silver.	Boxes.	20	411	27	9	3	6	45	24
	,, copper.	,,	330	965	173	25	2	..	200	100
	Notes ..	,,	10	6	4	3	3	3	13	1
	Packages ..	No.	6	4	..	1	..	..	1	..
Bank of Madras ..	Specie, silver.	Boxes.	..	34	..	..	..	..	..	..
Do. ..	,, copper.	,,	..	..	33	29	..	..	62	..
Ordnance	Packages and pieces.	No.	6,564	8,595	1,083	1,123	2,085	1,540	5,831	1,958
Public Works Department	,, ..	,,	429	1,784	141	23	107	217	488	116
Clothing	,, ..	,,	1,254	1,327	225	483	183	195	1,086	151
Police	,, ..	,,	727	889	95	495	272	112	974	72
Salt Revenue ..	,, ..	,,	306	591	84	293	149	199	725	118
Medical	,, ..	,,	1,552	1,367	518	273	123	696	1,610	400
Telegraph ..	,, ..	,,	9,462	8,845	35	120	3,735	440	4,330	390
Stationery ..	,, ..	,,	799	693	153	132	121	374	780	155
Stamps	,, ..	,,	195	220	53	45	134	66	298	46
Commissariat ..	,, ..	,,	7,761	7,971	740	788	2,672	2,005	6,205	1,399
Gazette Press ..	,, ..	,,	476	526	114	128	156	105	503	142

VIII.—Statement of Stores, &c., exported by Government—*cont.*

Department.	Description.	Class.	1890–91.	1891–92.	Quarter ending 30th June 1892.	Quarter ending 30th Sept. 1892.	Quarter ending 31st Dec. 1892.	Quarter ending 31st March 1893.	Total for 1892–93.	Quarter ending 30th June 1893.
Marine	Packages and pieces.	No.	268	390	92	122	78	74	366	7
Revenue Board ..	„ ..	„	79	77	18	5	4	10	37	19
Do. Settlement.	„ ..	„	87	51	29	33	17	5	84	26
Do. Survey ..	„ ..	„	74	75	56	233	92	71	452	81
Superintendent of Prisons	„ ..	„	71	69	35	90	19	52	106	9
Registration ..	„ ..	„	61	66	..	..	..	43	43	1
Conservator of Forests.	„ ..	„	31	34	3	4	11	15	33	1
Quarter Master-General	„ ..	„	..	..	..	4	..	..	4	..
Government Central Museum ..	„ ..	„	9	10	4	15	2	1	22	7
Deputy Collectors ..	„ ..	„	..	2	9	..	..	..	9	..
Camp Equipage ..	„ ..	„	..	..	..	..	..	..	..	..
Government Astronomer	„ ..	„	..	..	11	2	..	5	18	4
Agriculture ..	„ ..	„	5	15	2	1	..	5	8	2
General Hospital ..	„ ..	„	..	..	..	..	..	..	..	..
State Railways ..	„ ..	„	..	100	..	..	..	..	..	..
Inspector of Cattle Diseases ..	„ ..	„	3	3	1	..	..	..	1	..
Chemical Examiner.	„ ..	„	3	..	..	1	..	..	1	..
Director of Public Instruction ..	„ ..	„	16	10	3	1	..	..	6	..
Registrar of University	„ ..	„	16	13	..	..	10	..	10	..
Collectors	„ ..	„	..	10	..	..	..	..	..	6
Curator of Government Garden, Ootacamund	„ ..	„	12	11	..	..	..	..	..	2
Engineer, Harbour Trust Board ..	„ ..	„	..	..	..	..	..	..	..	..
Crown Officer, High Court	„ ..	„	13	14	6	3	1	8	18	4
School of Arts ..	„ ..	„	..	..	..	..	..	..	..	..
Secretary to Government, Public Department ..	„ ..	„	..	2	..	..	..	..	..	..
Registrar-General of Births, Deaths and Marriages ..	„ ..	„	..	..	..	..	..	..	..	..
Inam Commissioner ..	„ ..	„	..	1	..	..	..	..	..	..
Consulting Engineer to Government, Railways ..	„ ..	„	36	20	1	..	..	..	..	..
Civil Engineering College ..	„ ..	„	..	..	..	..	..	1	1	..
Superintendent, Census Operations ..	„ ..	„	..	..	..	..	..	4	4	1
Post-Office ..	„ ..	„	..	..	..	..	1	..	1	2
Sanitary Commissioner	„ ..	„	..	..	..	..	..	..	1	2

No. P.

(Signed) G. R. P. LLOYD,
Acting Traffic Manager, Harbour Trust Board.

To the Secretary, Harbour Trust Board, Madras.

REPORT of progress on the Madras Harbour Works for the quarter ending 30th June 1893.

Accompanying this report are the following plans and statements :—

No. 32 (*a*).—A plan of the harbour to a scale of 200 feet to an inch, showing in red the position and quantity of work done during the quarter. The contours in half fathoms shown on this plan are those of the last complete Marine survey of 1889. The positions of the high water marks of the 30th June 1893, and that of the previous twelve months, both to the north of the revetment and the south of the harbour, are shown for comparison.

No. 32 (*b*).—A revised plan showing in detail the advance made during the quarter at the pier-heads as now being constructed, and the positions of the caissons for completing both piers of the harbour, with an entrance of 520 feet.

No. 32 (*c*).—A statement comparing the expenditure on different sub-heads of work up to the end of the quarter; with the provisions of the sanctioned estimate.

No. 32 (*d*).—A statement showing work done under different sub-heads and particulars of cement received and issued.

2. The various heads of work, &c., throughout the Harbour Works are reported on as follows:—

3. *General.*—During the quarter under review, which includes the months of April, May and June, both the Titan cranes have to be brought on shore for security from rough weather, general, during the south-west monsoon; and this forced stoppage of all work at sea reduces the quarter of 91 days to only 40 possible working days, after deducting the holidays, Sundays and several days during the quarter, when the sea was too rough for Marine work.

4. *North Pier-head.*—The work of dredging up the excess rubble base, to found the pier-heads deeper than was done previous, to the damage of 1881, and setting the wider and deeper section of bonded block-work, was carried on from the commencement of the quarter and until the 27th April, when the crane was brought ashore for the monsoon. Dredging was resumed again on the 7th June, by which date the sea was sufficiently quiet; but diving operations could not be commenced till the 17th June, and from this date work at block-setting and dredging at the north pier went on steadily to the close of the quarter.

5. During the available 40 working days, two complete courses were added to this pier-head, by setting 49 blocks, which advanced the superstructure by 10′ 9″ and brought the total length of the northern arm up to 3,764 feet from shore, as shown on plan 32 (*b*).

6. At this point, or the sea face of course No. 254, the permanent bonded block-work at the north pier-head ends; and the last and permanent course of block-work, at the north pier-head, has been completed.

7. Beyond this point, or course No. 254, there are to be six temporary courses of block-work to be set to compress the base upon which the cylindrical caisson is to be set, and these courses also enable the necessary point being reached by the crane from the masonry pier.

8. Of these six temporary courses, two courses or 10′ 9″ out of a total length of 32′ 3″ of temporary work has been set to date, but the further the work advances the more difficult the work becomes, as there is so much of the old ruined work and rubble base to be dredged up, to make room for these more massive pier-heads, than originally designed by Mr. Parkes.

9. The removal of this heaped up mass of material, and the dangerous positions the old blocks are in, requires great skill in slinging them; and this can only be done when the sea is absolutely calm, but notwithstanding the unfavourable weather experienced during the quarter, fair progress has been made and unless some unforeseen difficulty or accident takes place, the north pier will be completed and the caisson set by the end of February next for certain, when there will be merely the capping to add, and a light-house to be erected, which will complete the north arm of the harbour.

10. *Wave-breaker.*—The general section of the wave-breaker screen throughout the length of the north pier as far as the pier-head was brought up to the full sanctioned width; at the different points, previous to closing work for the monsoon, consequently between the distance of 1,600 feet and 3,759 feet, 23 wave-breaker blocks, or 414 cubic yards of concrete was added on the sea face of the pier at points where, with old Titan cranes, it was not possible to place these blocks, so as to give the best possible resistance to the force of the sea.

11. *South Pier-head.*—The total working days available for work at the south pier-head after deducting Sundays and holidays and the period the crane was on shore for the monsoon, was only 38 working days, being 2 days less than at the north pier, owing to the longer time this old type of Titan crane takes to get in working position. Again, only half the progress in completed work at this pier-head can be reported as compared with the work at the north pier-head, and this, as already reported, is mainly due to the old Titan crane not being as handy for the work as the all-round Titan crane now at the north pier, so that the rate of progress must be slow until the north pier is finished and the new crane can be transferred to the south pier-head.

12. During the 38 days the crane was in position at this pier-head, 22 days were taken up in dredging and raising, by divers, the excess rubble stone and pieces of broken blocks, to found the pier-head at the lower level, as at the north pier; and 3 days were occupied in setting the 210th course in the pier-head which is also at the widest and the deepest section of the work. This course consisted of 23 blocks and added a completed length of 5′ 4½′ of pier-head, and the point reached at this pier is now 3,852 feet from the first block set on shore.

13. At the close of the quarter under review, the south pier-head was exactly 6 courses, or 32′ 3″ behind the point reached at the north pier-head, viz., the last permanent course of block-work—but I am glad to report that since that date, another course has been set, and it is most probable two courses or 10′ 9″ will have been added in the following quarter.

14. *Wave-breaker.*—The wave-breaker screen of random block-work was brought up in line with the last course set, as shown upon plan 32 (*b*) and over this area 41 large 30-ton blocks were dropped, which took 5 days to raise and place in position, while the crane at the north pier does the same work in one-fourth the time.

15. *Apron or protection to Rubble Base along North and South Piers.*—At both piers, at intervals during the quarter, and monsoon, when dredging was not going on and the divers were not required at the pier-heads, their labour was directed towards preparing the rubble base along both piers preparatory to receiving the concrete, forming the apron at the footing of the superstructure; to prevent any chance of scour, and when the sea was exceptionally calm, a length of 20 feet of base was concreted and a length of 40 feet partially protected with concrete, or in all 27 cubic yards of cement concrete was made at the north pier. At the south pier no concrete was put down, as there was generally a wave motion to be felt down below; but during the quarter a length of base 75 feet × 20 feet wide was levelled, ready to receive the concrete, when weather would permit.

16. *Block-making Yard.*—There was no block-making carried on during the quarter, as only a few core blocks, for the caissons, remain to be built next quarter, and for this purpose a supply of tons of 3,895½ of granite chips was received from the quarries, and stacked at the crushing station.

17. All the blocks made for the south pier-head, with the exception of a few special guide blocks for the caissons, were transferred and restacked at the south pier block ground to allow of the beach line being taken up and moved on to Harbour Trust property for the realignment; rendered necessary for the rails of the proposed Electric Tramway Company.

18. *Protective Works North of Harbour.*—Along the length of new revetment, A to C, on plan 32 (*a*), the balance of the sanctioned estimate, viz., 8,352 tons of large boulders, were received from the Pallávaram quarries and deposited from wagons, by means of planks, to raise as high a bank of stone as possible above the rail levels. The provision made to date for the upkeep of this revetment has now been completed and the estimate run out, and I shall therefore be glad to receive sanction to feed this revetment with stone at the points where the stone settles down from time to time, until the revetment stands at the full section of 11 to 12 feet above mean sea level. The old line of revetment from the north pier to point A on plan has of late shown further signs of settlement, and will, before November this year, require additional stone.

19. The high water mark at the close of the quarter, along the new revetment, has not advanced this year as it did last year; but has left the stone revetment to protect the shore from erosion; thereby showing that all the sand which did collect at this point has now travelled permanently north, and but for this revetment having been taken in hand, in time, the Harbour Trust Board would have by this date been forced to meet heavy claims for compensation of land eroded upon by the sea. From this date, as there is no further sand to drift up the coast along the already revetted shore, the anticipated bay, at point C, will commence rapidly to develop, until it reaches the proportions of the original bay formed at point A at the end of the old revetment, and it will then be proved that the supposed reflected waves, from the harbour piers, have not been the cause of the erosion north of the harbour, but that erosion is due to the total stoppage of sand which, previous to the construction of the harbour, passed up the coast uninterrupted; but which at this date is arrested to the south of the south pier, so that a thoroughly substantial revetment, as now formed, must be maintained at any cost, or it will be breached, and the stone once strewn, will cost double to replace.

20. *Foreshore South of the Harbour.*—Upon the plan of the harbour attached to this report are shown the high water marks of 31st March and 30th June 1893, and the advance of foreshore measures near the pier 120 feet of accretion, but this is not permanent, as a portion of it will again be washed away; as proved from the high water marks of 30th June 1892 and 30th June 1893 the advance over the 12 months is only 60 feet.

21. *Sea bottom within the Harbour.*—A complete Marine survey of the harbour, and roadstead, was started at the close of the quarter exactly upon the same lines of soundings as in the Marine surveys I made in the years 1882–86 and 1889 and will be completed by October, if the sea is generally smooth enough for accurate work. July and half August proved too rough for soundings.

22. The high water mark inside the harbour during the quarter has receded to the extent of 40 feet on the north,—half of the harbour; while at the south half, the beach and high water line remains the same, this action is due to some swell and a few days of rough weather in April and May, which washed down the steep bank of sand thrown up in smooth weather to a more gradual slope, throwing the high water line back.

23. *Summary of Progress.*—The following is the summary of the progress made on the Harbour Works during the quarter under review.

PROGRESS STATEMENT No. 32. (*d*).

MADRAS HARBOUR WORKS.

STATEMENT showing progress during quarter ending 30th June 1893, No. 32 (*a*) and 32 (*b*).

NOTE.—The figures in block type denote for comparison progress and quantity of work done in 30th June 1892 when the pier-head work was founded at 34 feet below De Haviland's Mean Sea Level.

		Sub-heads of work.	North Pier.					South Pier.					Railway Lines.				Pallávaram Quarries outturn.	Concrete block-making.	Protective works.	Total expenditure during the quarter ending 30th June 1893.
			Rubble base.	Pier-head founded at 40 feet below De Haviland's Mean Sea Level.	Wave-breaker.	Concrete capping.	Base protection.	Rubble base.	Pier-head founded at 40 feet below De Haviland's Mean Sea Level.	Wave-breaker.	Concrete capping.	Base protection.	At Works.	At Quarries.	Sand Line.	Beach improvements.				
No. of item.	Particulars and quantity of work, &c.	Column.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Rubble stone deposited from boats ..	Tons.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	214½	..
2	Do. do. from wagons..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8,352	..
3	Total quantity rubble stone received on works.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	214½ 8,352	..	..	..
4	Do. blasted chips do.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1851¼ 3,895½	..	..	..
5	Concrete blocks—Set by divers ..	No.	..	**24** 49	..	..	..	..	**24** 23	..	..	..	..	..	..	..	..	..	..	..
6	Do. Deposited in Wave-breaker ..	,,	..	..	**188** 23	..	..	..	..	**35** 41	..	..	..	..	..	..	..	..	..	..
7	Do. made for superstructure ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	Do. Pier-head ..	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Wrought-iron cramp fixed in position.	,,	..	**16** 12	..	..	..	..	**8** 6	..	..	..	..	..	..	..	..	..	..	..
10	Total outturn of concrete, under water.	C. yds.	..	..	..	..	27⅓	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Advance or progress of completed superstructure	Ry ft.	..	**6' 3"** 10' 9"	..	..	..	..	**6' 3"** 5 4½	..	..	..	..	..	..	..	..	..	..	..
12	Rubble base protected with concrete..	,,	..	..	..	..	20 completed 40 part ,,	..	..	..	..	75	Base prepared to receive concrete.	..	..	..	..	..	..	..
13	Metre gauge, 40 lb. per yard laid new	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Do. do. relaid or renewed.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Statement showing progress during quarter ending 30th June 1893, No. 32 (*a*) and 32 (*b*)—*cont.*

Note.—The figures in block type denote for comparison progress and quantity of work done in 30th June 1892 when the pier-head work was founded at 34 feet below De Havilland's Mean Sea Level.

No. of item.	Particulars and quantity of work, &c.	Sub-heads of work.	North Pier. Rubble base.	North Pier. Pier-head founded at 40 feet below De Havilland's Mean Sea Level.	North Pier. Wave-breaker.	North Pier. Concrete capping.	North Pier. Base protection.	South Pier. Rubble base.	South Pier. Pier-head founded at 40 feet below De Havilland's Mean Sea Level.	South Pier. Wave-breaker.	South Pier. Concrete capping.	South Pier. Base protection.	Railway Lines. At Works.	Railway Lines. At Quarries.	Railway Lines. Sand Line.	Railway Lines. Beach improvements.	Pallavaram Quarries outturn.	Concrete block-making.	Protective works.	Total expenditure during the quarter ending 30th June 1893.
		Column.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
15	Metre guage, 40 lb. per yard taken up.	Ry. ft.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Broad gauge, 50 lb. per yard laid ..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	Do. do. relaid or renewed.	"	..	..	..	..	..	..	..	..	..	..	606	..	..	..	..	..	..	..
18	Do. do. taken up.	"	..	..	..	..	..	..	..	..	..	..	**2,940** 606	..	..	..	..	..	..	..
19	Titan gauge, 75 lb. per yard laid new	"	..	..	..	..	..	..	..	..	..	..	181	..	..	..	..	..	..	..
20	Do. do. relaid or renewed.	"	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..	..	..	..
21	Do. do. taken up.	"	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..	..	..	..
22			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Approximate expenditure under sub-heads of work ..	Rs.	..	12,008	27	..	363	..	8,930	93	..	52	..	..	..	..	14,366	..	2,433	38,272

	TONS.	CWT.	QRS.	LBS.
Nil casks of cement received on works during quarter ending 30th June 1893 containing		*Nil.*		
$27\frac{1}{6}$ do. do. issued for do. do. do.	4	15	1	0
$8810\frac{5}{6}$ do. do. balance in store at end of do. do.	1,572	15	0	13

Quantity done on indents. *Nil.* TONS. CWT. *Nil.* QRS. LBS.

Madras,
25th August 1893.

(Signed) A. LEE POGSON,
Engineer, Harbour Trust Board.

24. *Miscellaneous.*—The general repairs and additional roofing to the Traffic Manager's bungalow at Cassimode and some petty repairs to the Secretary's house at Ráyapuram were carried out and completed during the quarter.

25. The balance of the sanctioned 15 pier trucks for the Traffic Department were completed and handed over to the department in working order and all machinery cranes and railway lines, &c., were kept in working order by the Engineer's department.

MEMORANDUM to accompany statement of progress for the quarter ending 30th June 1893.

	RS.
1. Estimated sum required to complete the works at the commencement of the quarter except establishment, tools and plant and contingent charges	5,75,941
2. Cost of work done during the quarter	38,272
	5,37,669
3. Estimated cost of additional work found necessary during the quarter	...
4. Estimated cost of completing the works from and after the end of quarter	5,37,669

(Signed) A. LEE POGSON,
Engineer, Harbour Trust Board.

COMPARISON of expenditure to date with sanctioned estimate for the quarter ending 30th June 1893.

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					As executed.						
	Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure. Total up to end of last quarter.	Expenditure. During the quarter.	Expenditure. Up to date.	Arrears not paid.	Value of work done up to date, columns 11 and 12.
1	2	3	4	5	6	7	8	9	10	11	12	13
Expenditure up to 31st December 1884.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1. Works	..	..	..	55,09,324		..	..	55,09,324 8 10	..	55,09,324 8 10	..	55,09,324 8 10
2. Establishment	..	..	..	5,29,904		..	..	5,29,904 0 0	..	5,29,904 0 0	..	5,29,904 0 0
3. Tools and plant	..	..	..	5,15,262		..	..	5,15,262 6 0	..	5,15,262 6 0	..	5,15,262 6 0
Total	..	..	..	..	65,54,490	..	..	65,54,490 14 10	..	65,54,490 14 10	..	65,54,490 14 10
Revised Estimate.												
4. Alteration and extension of block ground .. Proly.	..	..	..	5,892	5,892	..	..	5,882 3 5	9 13 6	5,892 0 11	..	5,892 0 11
North Pier.												
5. Ordinary rubble deposited from breakwater .. Tons.	13,930	1 12 0	Ton.	24,378		13,930	1 12 0	24,377 9 0		24,377 9 0		24,377 9 0
6. Ordinary rubble deposited from boats .. ,,	206,396	2 0 5	,,	4,19,218		208,362	2 1 5	4,30,966 8 3	..	4,31,285 13 3	..	4,35,371 4 5
7. Concrete blocks for building .. C. yds.	51,320	11 8 0	C. yd	5,90,110		49,054	11 14 6	5,74,254 5 10	319 5 0	5,84,577 4 4	4,085 7 2	5,84,577 4 4
8. Setting blocks at commencement of new work .. ,,	2,615	2 1 1	,,	5,415		2,615	2 1 1	5,414 11 2	10,322 14 6	5,414 11 2	..	5,414 11 2
9. Setting blocks from 2,200 to 3,600 feet .. ,,	36,520	2 14 3	,,	1,05,569		36,447	2 15 9	1,08,813 14 8	..	1,08,813 14 8	..	1,08,813 14 8
10. Setting blocks at pierhead ,,	12,185	9 8 11	,,	1,16,424		10,022	9 5 9	79,615 4 10	11,388 7 6	91,003 12 4	2,816 5 11	93,820 2 3
11. Concrete in mass for filling .. ,,	263	4 8 3	,,	1,188		263	4 8 3	1,188 0 7	..	1,188 0 7	..	1,188 0 7
12. Wave-breaker blocks .. ,,	288	9 5 7	,,	2,692		288	9 5 7	2,692 0 0	..	2,692 0 0	..	2,692 0 0
13. Wave-breaker concrete blocks .. ,,	77,355	10 14 11	,,	8,45,591		67,418	11 6 8	7,63,593 3 2	5,979 4 6	7,69,572 7 8	..	7,69,572 7 8
14. Depositing concrete blocks ,,	77,932	1 0 0	,,	77,928		68,013	1 0 2	68,626 10 0	26 14 3	68,653 8 3	9 7 8	68,662 15 11
15. Concrete in protection to rubble base .. ,,	1,986	10 4 1	,,	20,358		1,229	16 5 8	19,669 14 11	423 13 11	20,093 12 10	9 3 9	20,103 0 7
16. Cramps, iron .. No.	331	9 10 1	Each.	3,188		313	7 11 10	2,419 5 8	2 10 6	2,422 0 2	..	2,422 6 2
17. Concrete capping .. C. yds.	16,352	11 3 10	C. yd.	1,83,790		573	19 14 11	11,393 14 7	27 13 0	11,421 11 7	..	11,421 11 7
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34 .. ,,	..	..	,,	84,750		..	..	20,773 3 6	123 14 6	20,897 2 0	2,693 12 2	23,590 14 2
Total for North Pier ..	..	..	..	..	24,80,607	..	..	21,13,798 10 2	28,615 1 8	21,42,413 11 10	9,614 4 8	21,52,028 0 6

South Pier.													
19. Ordinary rubble deposited from boats ..	Tons.	175,078	2 9 0	Ton	4,49,052		170,774	2 9 10	4,41,668 9 0	..	4,41,668 9 0	4,925 14 8	4,46,594 7 8
20. Large rubble deposited from breakwater ..	,,	8,615	1 12 0	,,	15,076		8,615	1 12 0	15,075 13 0	..	15,075 13 0	..	15,075 13 0
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510		40,831	11 5 1	4,57,120 7 11	5,062 2 8	4,62,182 10 7	..	4,62,182 10 7
22. Setting blocks at commencement ..	,,	2,556	3 1 6	,,	7,912		2,556	3 1 6	7,911 13 3	..	7,911 13 3	..	7,911 13 3
23. Setting blocks from 2,550 to 3,700 feet ..	,,	30,160	3 7 11	,,	1,05,461		30,160	3 7 11	1,05,461 9 4	..	1,05,461 9 4	..	1,05,461 9 4
24. Setting blocks at pierhead	,,	12,350	11 1 3	,,	1,36,845		8,114	14 11 8	1,07,796 0 7	9,147 11 0	1,16,943 11 7	2,574 6 9	1,19,518 2 4
25. Concrete in mass for filling	,,	602	7 9 1	,,	4,555		602	7 9 1	4,554 14 4	..	4,554 14 4	..	4,554 14 4
26. Concrete in cylindrical pierhead	,,	2,355	15 0 0	,,	35,325		..	..	..	..	..	2,685 5 0	2,685 5 0
27. Concrete in filling in between coursed blockwork and caisson ..	,,	184	15 0 0	,,	2,760		..	..	..	..	..	..	..
28. Wavebreaker concrete blocks	,,	47,231	11 1 6	,,	5,24,070		39,492	11 7 2	4,35,252 11 7	10,658 11 6	4,45,911 7 1	..	4,45,911 7 1
29. Depositing concrete blocks	,,	47,714	1 5 8	,,	64,708		39,975	1 6 1	55,053 15 4	93 0 10	55,147 0 2	..	55,147 0 2
30. Concrete in protection to rubble base ..	,,	1,700	9 10 6	,,	16,420		1,107	13 7 8	14,880 11 10	51 13 3	14,932 9 1	..	14,932 9 1
31. Cramps, iron ..	No.	259	11 7 7	Each	2,972		220	10 9 9	2,302 2 4	31 14 7	2,334 0 11	..	2,334 0 11
32. Concrete capping ..	C. yds.	16,247	11 5 8	C. yd.	1,84,495		669	21 2 4	14,146 0 4	..	14,146 0 4	..	14,146 0 4
33. Iron caisson ..	No.	1	..	,,	18,000		..	..	21,750 6 1	..	21,750 6 1	..	21,750 6 1
34. Preparing base for and setting cylindrical pierhead	,,	..	..	,,	28,665		..	..	..	..	..	..	..
Total for South Pier ..		..	..	..	..	21,00,826	..	..	16,82,975 2 11	25,045 5 10	17,08,020 8 9	10,185 10 5	17,18,206 3 2
Extending the Rubble Revetment protecting the Foreshore north of Harbour.													
35. Rubble stone revetment.	Tons.	70,600	2 1 0	Ton.	1,45,613		90,169	1 8 8	1,20,947 2 0	10,830 9 6	1,31,777 11 6	7,224 15 1	1,39,002 10 7
36. Railway lines	..	..	..	..	9,849		..	..	10,914 10 10	..	10,914 10 10	..	10,914 10 10
Total ..		..	..	..	..	1,55,462	..	..	1,31,861 12 10	10,830 9 6	1,42,692 6 4	7,224 15 1	1,49,917 5 5
37. Tools and plant		..	..	..	..	6,11,656	..	..	6,42,370 5 8	4,573 12 6	6,46,944 2 2	278 13 2	6,47,222 15 4
38. Contingencies		..	..	..	..	2,17,415	..	..	1,80,385 7 10	8,479 15 9	1,88,865 7 7	321 14 6	1,89,187 6 1
39. Establishment		..	..	..	..	5,34,369	..	..	5,32,647 7 11	12,163 19 10	5,44,811 2 9	..	5,44,811 2 9
40. Materials at site (concrete blocks in yards).	C. yds.	..	..	..	..	..	9,133	14 7 2	1,58,736 14 7	—31,041 0 6	1,27,695 14 1	4,246 8 2	1,31,942 6 3

Comparison of expenditure to date with sanctioned estimate for the quarter ending 30th June 1893—*cont.*

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					As executed.					Arrears not paid.	Value of work done up to date, columns 11 and 12.
	Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure. Total up to end of last quarter.	Expenditure. During the quarter.	Expenditure. Up to date.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Extending the Rubble Revetment protecting the Foreshore north of Harbour—cont.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
41. Advances to work-people ..	..	..	..	..	..	..	..	6,016 15 9	−5,951 6 1	65 9 8	..	65 9 8
Total of estimate and value of work done	..	..	..	..	61,06,227	..	..	54,54,675 1 1	52,725 15 0	55,07,401 0 1	31,872 2 0	55,39,273 2 1
Deduct probable recoveries due to sales of tools and plant ..	..	..	..	..	2,77,331	..	..	−70,636 11 5	−1,204 12 7	−71,841 8 0	..	−71,841 8 0
Total ..	..	..	..	..	58,28,896	..	..	53,84,038 5 8	51,521 2 5	54,35,559 8 1	31,872 2 0	54,67,431 10 1
Total of revised estimate sanctioned in Secretary of State's despatch, *plus* expenditure before 31st December 1884	..	..	..	..	1,23,83,386	..	..	1,19,38,529 4 6	51,521 2 5	1,19,90,050 6 11	31,872 2 0	1,20,21,922 8 11
Estimated cost of additional works found necessary up to end of last quarter	..	..	..	..	..	..	..	..	..	..	..	..
Estimated cost of additional works found necessary during quarter ending	..	..	..	..	..	..	..	..	..	..	..	..
Total estimated cost for completion of works	..	..	..	..	1,23,83,386	..	..	..	..	..	..	..
Deduct total expenditure as per column 11	..	..	..	..	1,19,90,050	..	..	..	..	..	..	..
Total estimated cost of completing work after quarter ending 30th June 1893	..	..	..	..	3,93,336	..	..	..	..	..	..	..

	RS. A. P.	
Expenditure up to 31st March 1893 from commencement of works	1,19,38,529-4-6	
Do. during current official year from 1st April 1893 to 30th June 1893 ..	51,521-2-5	Grant for 1893-94 Rs. 4,50,000.
Total outlay to 30th June 1893 ..	1,19,90,050-6-11	

MADRAS,
25th August 1893.

A. LEE POGSON,
Engineer, Harbour Trust Board.

No. 1691, Marine.

Transferred to the Public Works Department.

OOTACAMUND,
23rd September 1893.

(Signed) J. F. PRICE,
Chief Secretary.

ORDER—dated 16th October 1893, No. 2645 W., Public Works.

Ordered to be forwarded for the information of the Secretary of State and the Government of India.

[Here enter No. 2646 W., dated 16th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Chairman, Harbour Trust Board.
,, Marine Department.

ENDORSEMENT—dated 16th October 1893, No. 2646 W., Public Works.

Copy of the above, with two plans showing the progress of the work, forwarded to the Government of India.

(By Order.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16th.

Recd. *Encl.*

G.O., 16th Oct. 1893, Nos. 2645, 2646 W.

OCTOBER.

Madras Harbour Works

Forwarding copy of the progress report of the — for quarter ending 30th June 1893, together with two plans showing progress of the work.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

In continuation of our despatch No. $\frac{6}{1884}$ W., dated 21st July 1893, we have the honour to forward, herewith, the progress report of the Madras Harbour Works for the quarter ending 30th June 1893.

2. The report is accompanied by two plans showing the position and quantity of work done during the quarter.

We have the honour to be,
My Lord,
Your Lordship's most obedient, humble servants,

(Signed) WENLOCK.
(„) H. E. STOKES.
(„) J. H. GARSTIN.

(By Order.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
16th October 1893.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

LETTER to the Right Honorable the Secretary of State for India.

No. $\frac{9}{2645\text{ W.}}$, dated 16th Oct. 1893.

FORWARDING progress report of the Madras Harbour Works for quarter ending 30th June 1893, together with two plans showing the position and quantity of work done during the quarter.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

From Brigadier-General H. P. PEARSON, C.B., Adjutant-General, Madras Army, to the Secretary to Government, Public Works Department, dated Ootacamund, 6th October 1893, No. M/60.

With reference to Proceedings of Government, Public Works Department, No. 1188 W., dated 2nd May 1893, I have the honour to forward, for your information, copy of letter No. 1183 R.E., dated 11th July 1893, from the Commander-in-Chief in India to the Adjutant-General to the Forces, Horse Guards, together with reply * thereto, conveying the approval of His Royal Highness the Commander-in-Chief to the continuance of the practice that has hitherto been carried out with respect to Royal Engineer officers in Civil employment in connection with the information to be furnished as to their professional qualifications in the Annual Confidential Reports on Army Form B 194 (3) submitted on them.

* No. G. 15/9444, dated 1st August 1893.

ENCLOSURES.

Copy of a letter from the Commander-in-Chief in India, to the Adjutant-General to the Forces, Horse Guards, War Office, London, dated 11th July 1893, No. 1183 R.E.

In reply to your letter No. G. 15/9444, dated 23rd February 1893, I have the honour to state that orders have been issued to ensure compliance in future, so far as officers in Military employment are concerned, with the instructions you transmit regarding the information to be furnished as to the professional qualifications of officers of Royal Engineers in their Annual Confidential Reports on Army Form B 194 (3).

2. In the case, however, of Royal Engineer officers in Civil employment, there is some difficulty in complying with His Royal Highness' wishes that the particulars as to an officer's professional qualifications on page 1 of the report should be filled in by the Commanding officer and not by the officer himself.

The departmental superior who represents the "Commanding officer" is often, indeed generally, not a Military man, and the view held in the Public Works Department is that it is not possible for a Civilian departmental superior to report on the Military professional qualifications of an officer in a manner satisfactory to the Military authorities or altogether fair to the officer reported on.

The departmental superior might indeed fill in only such qualifications as he had personal knowledge of, such as "construction and estimating," "surveying," or "railways;" but it seems undesirable that if an officer has made a special study of, and is proficient in, other subjects, *e.g.*, "fortification" or electricity, no mention should be made of these because he is not at the time employed in connection with them.

3. The rules at present in force—Army Regulations, India, volume II, para. 117-B—impose upon an officer in Civil employment the duty of filling in the answers as to his professional qualifications, but his replies are verified and confirmed by the countersignature of the Commanding officer; I therefore beg that I may be informed whether this practice should be continued, or those answers left blank in regard to which the departmental superior has not personal cognisance of the proficiency of the officer reported on.

Copy of a letter from the Deputy Adjutant-General, Royal Engineers, Horse Guards, War Office, to His Excellency the Commander-in-Chief in India, dated 1st Aug. 1893, No. G. 15/9444.

In reference to your letter of the 11th July last, No. 1183 R.E., regarding information to be furnished as to the professional qualifications of officers of the Royal Engineers in their Annual Confidential Reports on Army Form B 194 (3), I am directed by the Commander-in-Chief to inform you that His Royal Highness approves of the continuance of the practice that has hitherto been carried out with respect to Royal Engineer officers in Civil employment.

ORDER—dated 16th October 1893, No. 2648 W., Public Works.

Communicated to officers of the Public Works Department concerned for information and guidance with reference to G.O., No. 1188 W., dated 2nd May 1893.

2. Officers of the Royal Engineers employed in the Public Works Department will, in future, themselves fill in the required information regarding their professional qualifications in the Annual Confidential Reports, Army Form B 194 (3), Royal Engineers, as required by appendix U, section (ii) of the Public Works Code.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
,, the Consulting Architect.
,, the Superintendent of Works, Periyár Project.
,, the Chief Engineer for Irrigation.
,, the Consulting Engineer for Railways.
,, the Examiner of Public Works Accounts.
,, the Examiner of Railway Accounts.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 16*th.*

Recd. *Encl.*

G.O., 16th Oct. 1893, No. 2648 W.

OCTOBER.

Annual Confidential Reports

Correspondence conveying the approval of His Royal Highness the Commander-in-Chief to the continuance of the present practice in connection with information to be furnished regarding professional qualifications of Royal Engineer officers in their —, communicated to officers of the department concerned with instructions.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper :—

From the Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 22nd September 1893, No. 3170 M.W.

I am directed to state that the Government of India have under consideration a proposal for assimilating the system under which Barrack Department duties in the Madras Presidency are carried out to that prevailing elsewhere in India. At present, the duties which in India generally are executed by the Barrack Department under the supervision of the officers of the Military or Public Works Department are at present carried out in the Madras Presidency under the Quarter Master General's and Commissariat Departments. Should the proposal referred to above be sanctioned, the duties in question would be carried out under the officers of the Military Works Department at stations where ordinary Military works are in charge of that Department, and at stations where Military works are in charge of the Public Works Department, the supervision of any Barrack Department work would similarly be entrusted to the local Executive Engineer of the Public Works Department. It is understood that at most of the Madras stations in the latter class the amount of Barrack Department work is trifling and could be undertaken by the existing departmental establishment, but that at Cannanore the quantity of work is sufficient to demand the services of a member of the Barrack Department establishment. I am to say that, in the event of the Barrack Department duties being transferred as proposed, most of the present establishment (Barrack Masters and Barrack Sergeants) would be transferred to the control of the Military Works Department, and that the man required for Cannanore would be lent to the Public Works Department from the establishment transferred in the same way that Barrack Department establishment is supplied for stations in Burma and for some stations in the Bombay Presidency. The cost of new supplies and repairs and of certain other expenses falling under the head of Barrack Department expenditure, together with the pay of any man lent to the Madras Public Works Department as indicated above, would be a charge against Military Works Funds, and to meet the cost of supervision the local Public Works Department would be entitled to take credit at the usual rate of 10 per cent. upon the expenditure incurred (exclusive of payments on account of salary of any Barrack Department establishment), this percentage also being debited against Military Works Funds.

2. I am to ask that, under the orders of His Excellency the Governor in Council, the Government of India may be informed whether there is any objection to the transfer to the local Public Works Department of the Barrack Department duties at the stations where ordinary Military works remain in charge of the Madras Public Works Department.

ORDER—dated 18th October 1893, No. 2661 W., Public Works.

Ordered that the Government of India be addressed.

[Here enter No. 2662 W., dated 18th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Military Department, with copy of letter
to the Government of India.

BUILDINGS AND ROADS.
MILITARY. WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 18th.

Recd. *Encs.*

G.O., 18th Oct. 1893, No. 2661 W.

OCTOBER.

Barrack Department

Ordered that the Government of India be addressed on the subject of the transfer to the Public Works Department of the duties of the — at stations in which Military works are still in charge of the Public Works Department.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

LETTER—from

J. HANNAN, ESQ.,
Ag. Joint Secy. to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
MILITARY DEPARTMENT.

SIR,

I am directed to acknowledge the receipt of your letter No. 3170 M.W., dated 22nd September 1893, on the subject of the transfer to the local Public Works Department of the Barrack Department duties at stations where ordinary Military works remain in charge of the Madras Public Works Department, and to inform you in reply that His Excellency the Governor in Council has no objection to the proposals made by the Government of India. The local Public Works establishments will therefore, with the aid promised at Cannanore, be prepared to undertake the required duties on orders to that effect being communicated.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNEN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
18th October 1893.

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 18th.

Recd. *Encl,*

18th October 1893, No. 2662 W.

OCTOBER.

Barrack Department

Stating that there is no objection to the proposals regarding the duties of the — being transferred to the Public Works Department at stations where the ordinary Military works remain in charge of the Madras Public Works Department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From the Sub-Division Officer, Nilgiris, to the Executive Engineer, Coimbatore Division, dated 20th September 1893, No. B.

I beg to inform you that the other day a boulder came down the Benhope falls at 17 mile 1 furlong of our road and has sprung the upstream beam of the bridge; I am now propping it up and have written to Mr. Alexander to stop the work above for the present to enable me to put up a temporary bridge and renew the old one with the top booms from Kullar: all the materials are ready and I have given the work to Mr. Groves.

2. The present bridge will be safe enough with the props if the Railway authorities will delay a little, and I would therefore request you to kindly write to the Engineer-in-Chief for necessary orders.

Endorsement by the Executive Engineer, dated 22nd September 1893, No. 3570.

I have written demi-officially to Mr. Weightman this morning to stop throwing all material there till the new bridge is ready.

No. 3576.

Copies forwarded to the Superintending Engineer with reference to this office No. 2026, dated 7th June 1893.

2. This is precisely what I expected; had the bridge been smashed traffic must have been interrupted for several days.

3. No temporary bridge can stand if stones are thrown down.

(Signed) W. C. LEWIS,
Executive Engineer.

22nd September 1893.

No. 375 E.W.

Copy forwarded to the Chief Engineer for information and orders as to whether the Railway contractors may be called upon to pay for the damage done.

(Signed) A. W. SMART, Lieut.-Col., R.E.,
Suptg. Engineer, IV Circle.

25th September 1893.

Office-note from the Consulting Engineer for Railways, dated 3rd Oct. 1893.

Copy of my 22 of 21st June to the Railway Company put up for information. I do not think the Railway contractor can be held liable under the orders issued by Government.

2. During the blasting of the formation near Benhope cliffs, it is possible that damage may be done to the timber bridges below, but I do not think it possible to avoid it as the rock is too hard to be got out by other means. The contractor is bound to patrol the road and prevent danger to the travelling public.

ENCLOSURES.

From the Consulting Engineer for Railways, Madras, to the Secretary and Agent, Nilgiri Railway, dated 21st June 1893, No. 22 O.

I have the honour to forward copy of letter from Superintending Engineer, IV Circle, on the subject of damage caused at 17 mile 1 furlong to a wooden bridge of 26 feet span. As far as practicable I request the precautions suggested may be carried out. I would further remark that the provision of spare beams and planks at the bridge would be an advantage in case of the bridge requiring repair. Please let me know if you can do this.

From the Executive Engineer, Coimbatore Division, to the Superintending Engineer, IV Circle, dated 7th June 1893, No. 2026.

I have the honour to bring to notice that there is a bridge at 17 mile 1 furlong on Ooty-Kullar road of 26 feet span wooden beams. Just above this the railway are excavating a rock cutting and throwing boulders down: the boulders have already smashed two hand rail supports and bruised the main beams; it is quite possible that big rocks may fall on the bridge and break it down, in which case traffic would be completely interrupted for several days.

2. I have the honour to request that the Consulting Engineer for Railways may be asked to issue instructions that all materials thrown down may be broken small so as to minimize the danger, as I believe he has said that there is nothing to be done except thrown materials down that way.

Endorsement by the Superintending Engineer, IV Circle, dated 9th June 1893, No. 234/M.

Copy forwarded to the Consulting Engineer for Railways, Madras, with the request that the necessary instructions may be issued to prevent the likelihood of damage to the bridge at 17 mile 1 furlong, Ooty-Kullar road.

2. The blocking of the roadway consequent on damage to the bridge would be very serious, especially as the south-west monsoon rains may be shortly expected.

Office-note from the Consulting Engineer for Railways, dated 12th October 1893.

ORDER—dated 18th October 1893, No. 2663 W., Public Works.

It does not seem practicable to entirely prevent damage of the kind brought to notice, but the Railway contractors should be instructed to use all possible precautions both for the protection of the Government works below and of the public using the road.

2. All charges incurred for repairing damage done by the disposal of spoil will, in accordance with paragraph 3 of G.O., No. 1185 W., dated 1st May 1893, be met from Imperial (Railway) funds.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Consulting Engineer for Railways.
,, Superintending Engineer, IV Circle.
,, Examiner of Public Works Accounts.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 18*th*.

Recd. *Encl*,

G.O., 18th Oct. 1893, No. 2663 W.

OCTOBER.

Damages

Passing orders in connection with the — done by spoil from the Nilgiri Railway works and the incidence of all charges incurred for repairing such damages.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From A. L. H. PALMER, Esq., Superintendent, Government Telegraph, Madras Division, to the Secretary to Government, Public Works Department, dated 10th October 1893, No. 4347.

With reference to your letter No. 770, dated the 14th of August 1893, I have the honour to inform you that telephonic communication was established between the Madras High Court and the Central Exchange at Fort St. George on the 27th ultimo and the annual rent charge in consequence for the telephone system in Madras will be as follows from the 27th September 1893 :—

Circuits.	Distance from exchange.	No. of Telephones.	No. of Indicators.	Date of communication established.	Remarks.
	MILES.				
Exchange to	..	1	..		
Commissary-General's office	1·28	1	1		
Master Attendant's do.	1·26	1	1		
Quartermaster-General's office ..	·12	1	1		
Transport office	·12	1	1	5th January 1883.	
Government House	1·35	1	1		
Revenue Board	2·05	1	1		
Chief Engineer's office	2·16	1	1		
Guindy	8·19	1	1		
Accountant-General's office	·12	1	1	10th July 1883.	40·09 = 80·18, or say 81 half miles.
Ordnance office	·18	1	1	22nd July 1885.	
Gun Carriage Factory	1·96	1	1	24th July 1885.	
Inspector-General of Police	3·71	1	1	21st November 1885.	
Commissioner of Police	2·46	1	1		
Deputy Commissioner of Police ..	1·42	1	1	8th January 1886.	
Government Press	2·75	1	1	15th December 1888.	
Army Clothing	2·75	1	1	1st October 1889.	
Honorable Mr. Garstin	3·26	1	1	3rd October 1890.	
Observatory	3·70	1	1	16th December 1891.	
Madras High Court	1·25	1	1	27th September 1893.	
Total ..	40·09	20	19		

Charges.

	RS.
81 half miles of wire circuit at Rs. 20	1,620
20 Telephones at Rs. 60	1,200
19 Indicators at Rs. 30	570
Operator 19 subscribers at Rs. 30	570
Total ...	3,960

2. The acceptance of the revised charge is requested.

ORDER—dated 20th October 1893, No. 2674 W., Public Works.

The revised charge is accepted.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintendent of Telegraphs, Madras Division.
" Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Financial Department.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

G.O., 20th Oct. 1893, No. 2674 W.

OCTOBER.

Telephone System in Madras

Accepting the revised charge of the — from 27th September 1893 in consequence of communication being established between the Madras High Court and the Central Exchange, Fort St. George.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), dated 7th September 1893, No. 517.

Read—Replies from Collectors to Board's Proceedings, dated 18th February 1893, No. 74, on the subject of extension of telegraph system in their districts.

Resolution—dated 7th September 1893, No. 517.

The Director-General of Telegraphs, in his letter communicated with G.O., dated 8th February 1893, Mis. No. 567, Revenue, brought to the notice of Government that the extension of the telegraph system to Madanapalle by a cheap line *viâ* Punganúru and Palmanér, constructed with reference to the correspondence ending with G.O., dated 25th March 1892, No. 986 W., had proved financially successful, and requested to be informed whether there were any other places in the Madras Presidency to which the extension of the telegraph might be undertaken with a fair prospect of financial success. In Board's Proceedings, dated 18th February 1893, No. 74, reports were called for from all Collectors except Madras, and the papers read above are their replies.

2. The Collectors of Vizagapatam, Nellore, Anantapur, Kurnool, North Arcot and Tanjore report that any further extension of the telegraph system in their districts would not at present pay.

3. The Collector of Coimbatore states that Dhárápuram is the only remaining place in his district to which the extension of the telegraph might be undertaken with a fair prospect of financial success. The Board, however, observes that the Director-General of Telegraphs has already been addressed on the subject (*vide* G.O., dated 21st December 1892, No. 3489 W.). The omission of Dhárápuram in paragraph 2 of G.O., dated 23rd January 1893, No. 162 W., which probably led the Collector to repeat his recommendation, is apparently a typographical error.

4. The Collectors of the remaining districts propose to extend the telegraph system to the undermentioned places for the reasons given in their reports which are herewith submitted :—

District	Places	District	Places
Ganjám ...	(1) Suradá.	Chingleput ...	(1) Cheyur. (2) Puduváyal.
Gódávari ..	(1) Amalápuram. (2) Polavaram. (3) Tanuku. (4) Rámachandrapuram.	South Arcot ...	(1) Vriddhachalam. (2) Tirukkóyilúr.
Kistna ...	(1) Duggirla. (2) Tenali. (3) Ponnur (4) Bápatla. (5) Chírála. (6) Pamarru. (7) Gudiváda.	Trichinopoly ...	(1) Ariyalúr.
Cuddapah ...	(1) Proddatur. (2) Sidhout. (3) Jammalamadugu.	Madura ..	(1) Palni. (2) Védasundúr.
Bellary ...	(1) Rayadrug. (2) Kampli. (3) Narrandevarkery. (4) Chitwadigi.	Tinnevelly ...	(1) Sankaranayinárkóyil. (2) Kalugumalai. (3) Srívaikuntam.
		Nilgiris ...	(1) Gúdalúr.
		Salem	(1) Námakkal. (2) Atur. (3) Dharmapuri.
		South Canara ...	(1) Brahmawar. (2) Coondapoor. (3) Bantvál.
		Malabar ...	(1) Manantoddy. (2) Chowghat.

5. The places above mentioned seem generally well selected, most of them being large towns of considerable agricultural and commercial importance and also the head-quarters of various public offices. On reference to the receipts from the lines already existing in the various districts, the Director-General of Telegraphs will doubtless be able to judge in which cases the Collectors' estimates of financial success seem likely to be well founded and which of the proposed new lines should be first undertaken. The Board would, however, suggest that the cheapest possible lines be constructed in the first place with third-class offices, so that if any of the extensions should prove manifest failures, they can be abandoned without much loss to the State.

6. The establishment of telegraph offices at Dhárápuram, Udamalpet and Kollegal in the Coimbatore district and at Sholinghur in the North Arcot district has already been considered by Government in the marginally-noted orders, and the question is, the Board presumes, now pending with the Director-General of Telegraphs. A special recommendation for extending the telegraph line from Periyakulam to the Periyár works in the Madura district with a station at Uttamápalaiyam or Cumbum was submitted to Government in Board's Proceedings, dated 6th July 1893, No. 396, but has just been negatived (G.O., dated 28th August 1893, No. 3170 R.).

G.O., dated 21st December 1892, No. 3489 W.
G.O., dated 9th January 1893, No. 6 W.

(A true Extract)

(Signed) W. S. MEYER,
Acting Secretary.

Mis. No. 3564, Revenue.

Transferred to the Public Works Department.

OOTACAMUND,
26th September 1893.

(Signed) E. GIBSON,
Ag. Secretary to Government.

ORDER—dated 20th October 1893, No. 2676 W., Public Works.

The Proceedings of the Board of Revenue above recorded will be forwarded to the Director-General of Telegraphs for consideration.

2. With reference to paragraph 3, the Director-General will be asked whether he has arranged for the connection of Dhárápuram with the telegraph system.

3. In his letter recorded with G.O., No. 905 W., dated 6th April 1893, the Director-General intimated that he had ordered a telegraph office to be opened experimentally at Sholinghur, and in his letter printed with G.O., No. 2027 W., dated 7th August 1893, he reported that he had given instructions for an extension to Udamalpet from the telegraph office at Coimbatore with intermediate offices at Pódanúr and Pollachi. With regard to the proposed office at Kollegal, this Government in G.O., No. 2170 W., dated 23rd August 1893, declined to accept the guarantee required by the Director-General, the financial prospects of the line not being favorable. The only other extensions recently under consideration are one to the Periyár Head Works, which was negatived in G.O., No. 2071 W., dated 12th August 1893, and one to Kistnapatam, regarding which the Director-General was addressed in Proceedings, dated 21st September 1893, No. 2431 W.

(Here enter No. 2677 W., dated 20th October 1893.)

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
" the Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

G.O., 20th Oct. 1893, No. 2676 W.

OCTOBER.

Telegraph System in the Madras Presidency

Correspondence in connection with the extension of the —, ordered to be forwarded to the Director-General of Telegraphs for consideration.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LETTER—from

J. HANNAN, Esq.,

Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE DIRECTOR-GENERAL OF TELEGRAPHS.

SIR,

With reference to paragraph 3 of your letter No. 6696, dated 3rd January 1893, I am directed to forward the accompanying copy of the Proceedings of the Board of Revenue, No. 517,* dated 7th September 1893, in paragraph 4 of which will be found a list of the places in this Presidency to which the Collectors concerned consider that the telegraph system might be extended with a fair prospect of financial success. I am at the same time to invite your attention to the suggestion in paragraph 5 of the Board's Proceedings that the cheapest possible lines be constructed in the first instance, so that if any of the extensions should prove failures, they can be abandoned without much loss to the State.

* Proceedings No. 2676 W., dated 20th October 1893.

2. I am to take this opportunity to inquire, with reference to your letter No. 4885, dated 20th July 1893, whether arrangements have been made to open a telegraph office at Dhárápuram in the Coimbatore district. This town was mentioned in the correspondence forwarded with my letter No. 3490 W., dated 21st December 1892, but by oversight was not brought specially to your notice in the covering letter.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
20th October 1893.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

20th October. 1893, No. 2677 W.

OCTOBER.

Telegraph System in the Madras Presidency

Forwarding copy of Proceedings in connection with the extension of the — and inquiring whether arrangements have been made to open a telegraph office at Dhárápuram in Coimbatore district.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From Lieut.-Colonel A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 10th October 1893, No. 898 W.

I have the honour to forward herewith, for your early sanction, an estimate, amounting to Rs. 5,062, for erecting temporary suspension bridge across the Kullar river on the Coonoor ghât. The work has been completed, but the Examiner objects to pass the outlay without sanction to an estimate.

ORDER—dated 23rd October 1893, No. 2684 W., Public Works.

The estimate, amounting to Rs. 5,062, for constructing a foot suspension bridge across the Kullar river on the Méttupálaiyam-Coonoor road, is sanctioned.

2. The work having been completed, the necessary funds to cover the outlay incurred will be provided in separate orders.

3. The foot bridge should not be removed after the completion of the permanent road bridge. It is desirable that both bridges should be maintained.

4. This sanction has been registered as Provincial No. 99 W. of 1893-94 and classified as Communications, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle,
with two enclosures.
„ Examiner, Public Works Accounts.
„ Local and Municipal Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 23rd.

Recd. *Encl.*

G.O., 23rd Oct. 1893, No. 2684 W.

OCTOBER.

Foot suspension bridge across the Kullar River

The estimate of Rs. 5,062 for constructing a — on the Méttupálaiyam-Coonoor road, sanctioned with remarks, and its retention after the completion of the permanent road bridge, ordered.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

From F. L. O'CALLAGHAN, Esq., Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, the 18th Sept. 1893, No. 2402 G.

I am directed to acknowledge receipt of your letter No. $\frac{1626}{A}$ W., dated 19th June last, bringing to notice certain inconveniences caused by the appointment of non-commissioned officers and soldiers to the Upper Subordinate establishment of the Madras Presidency and requesting sanction to the abolition, with effect from 1894, of the present system of recruitment from that source.

2. In reply, I am to say that the Government of India are not prepared to agree to any curtailment of the opportunities afforded to British soldiers for obtaining civil employment in India, and regret that they are unable to accede to the request of the Madras Government. I am, however, to communicate the following observations on the proposal referred to.

3. In your letter it is not stated that the system of partially recruiting the Upper Subordinate establishment from non-commissioned officers and soldiers has not given the Public Works Department useful recruits, but the proposal for the abolition of the system is chiefly urged on the grounds of the inconveniences that have arisen under the grading scheme sanctioned in 1881 and on the fact that only about one half of the number of soldiers who enter the Madras College of Engineering succeed in completing the course for admission to the Public Works Department. The Government of India are of opinion that it should be possible to rectify the imperfections in the grading system, and I am to request that the Government of Madras may be moved to reconsider the existing arrangements with that object. The inconvenience which is stated to be caused by the appointment of passed soldier students direct to the 1st grade of overseers is possibly due to some extent to the want of elasticity in the Madras system under which the numbers in each grade of overseers are regulated by a fixed scale. In this connection I am to invite attention to Government of India Public Works Department letter No. 405 G., dated 9th March 1886, in which the Government of Madras were reminded that there is no limit laid down for the number of overseers in each grade.

4. The exclusion from the Madras College of soldiers of inferior educational attainments and the admission of those only who are likely to qualify for appointments as overseers could, it is considered, be effected by raising the standard of the examination for entrance to the College, the subjects of which, it appears from the Madras University calendar, are at present limited to English and Arithmetic. It will be seen from page XXXIV of the Thomason Civil Engineering College calendar for 1893 that the entrance examination at Rurki embraces a wider range of subjects. I am to request that the Government of India may be informed of any measures which the Madras Government may now be disposed to adopt in view to improving the method of selecting soldiers for admission to the Madras College.

5. In conclusion, I am to inquire, with reference to the last sentence of paragraph 6 of your letter, whether the rule authorising the annual admission of five soldier students to the Madras College was sanctioned by the Government of India or the Government of Madras. If by the former, I am to ask that the authority for the rule may be quoted.

ORDER—dated 23rd October 1893, No. 2685 W., Public Works.

Ordered that the Government of India be addressed.

2. Paragraph 4 will be considered in the Educational Department.

[Here enter No. 2686 W., dated 23rd October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Educational Department,
" Military Department, } with copy of letter to the Government of India.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 23rd.

Recd. *Encl.*

G.O., 23rd Oct. 1893, No. 2685 W.

OCTOBER.

Madras College of Engineering.

Ordered that the Government of India be addressed on the subject of the admission of soldier students to the — and their employment in the subordinate grades of the Public Works Department.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

LETTER—from

J. HANNAN, ESQ.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

SIR,

I am directed to acknowledge the receipt of your letter No. 2402 G., dated 18th September 1893, on the subject of the admission of soldier students into the College of Engineering, Madras, in view to their employment in the subordinate grades of the Public Works Department, and, with reference to paragraph 3, to state that the inconvenience which arises from the direct appointment to the 1st grade of overseers of passed soldier students has already engaged much attention. The fact that the number in each grade of overseer is not a fixed quantity has not been lost sight of. Taking advantage of this circumstance, the local Government decided in 1884 to increase annually the proportionate scale of 1st-grade overseers by the number of military students brought on the establishment, a corresponding reduction being made in the 3rd grade. But it was found after experience that this arrangement afforded only partial relief to overseers of the 2nd and 3rd grades, and that it had other disadvantages. It was accordingly proposed in Colonel Shaw-Stewart's letter No. 222 W., dated 26th January 1886, that soldier students should be posted to the department in any grade thought suitable, but with a uniform staff salary of Rs. 85 per mensem. Their initial pay on first appointment would thus be subject to no diminution, but their subsequent promotion would be regulated on equal terms with civilian overseers of the same grade and length of service. This proposal was, however, negatived by the Government of India in letter No. 405 G., dated 9th March 1886. His Excellency the Governor in Council is still of opinion that this arrangement will best solve the difficulties and rectify the irregularities brought to notice in my letter No. $\frac{1626}{A}$ W., dated 19th June 1893, if the present system of recruitment from the army is to be maintained. I am accordingly to request that the proposal be reconsidered by the Government of India.

2. Paragraph 4 of your letter will receive consideration in the Educational Department, and a further communication will be addressed to you on the subject in due course.

3. In reply to paragraph 5, I am to state that the number of soldier students entering the College annually has, so far as can be ascertained, always been fixed by the local Government and not by the Government of India. This number has not been uniform, but has been changed from time to time by the Madras Government in accordance with the requirements of the Public Works Department.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
23rd October 1893.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 23rd.

Recd. *Encl.*

23rd October 1893, No. 2686 W.

OCTOBER.

Madras College of Engineering

Requesting orders on the subject of the admission of soldier students to the — and their employment in the subordinate grades of the Public Works Department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From the Rev. J. HARRISON, Missionary, C.M.S., Bezwada, to the Chief Secretary to Government, dated 31st March 1893.

I have the honour, at the request of His Excellency the Governor and the Honorable Mr. Garstin, to repeat in writing the pleas I put before them for a grant towards building a church at Bezwada.

2. A plan by a professional architect has been prepared. The estimate is Rs. 14,000. I have succeeded in raising Rs. 5,000 of the Rs. 14,000 required and hope, by effort, to reach Rs. 7,000, for which sum I am prepared to be responsible. I beg the Government to grant the remaining Rs. 7,000 required, to make up the total of Rs. 14,000.

3. Since 1864 all ecclesiastical work in the Kistna district has been done gratis. Although there has been no Government chaplain since that time in Masulipatam, there has always been a clergyman present and the services have been kept going with perfect regularity. To a large extent the same may be said of Bezwada. The maintenance of a chaplain from 1864 to 1893 would have cost the Government a large sum. Putting that aside however, I will only mention that the missionaries, according to Government rules, might have drawn within my knowledge Rs. 100 a month for the last 25 years in Masulipatam alone, *i.e.*, a sum of Rs. 30,000.

4. We do this work by the desire of the Lord Bishop of Madras and for conscience' sake, because it would be a shame to neglect our own countrymen, and the reason we do not draw the grant which Government would give is because we are prohibited by a rule of the Church Missionary Society from doing so.

5. In our struggle to do this work voluntarily I beg to submit that we deserve the special encouragement of Government and that, as the Kistna district costs Government nothing under the item for chaplains, it should receive exceptional treatment in this particular case.

6. Bezwada—not long ago a small village—has become by one leap as it were a large town. In the decade from 1881 to 1891 without counting Sitanagaram, it went up from a figure that was less than 10,000 to over 20,000, and is yearly increasing at a rate that will soon make it the largest town in these parts. Probably no such increase has occurred in any other place in India; but, as the chief officers of Government are in Masulipatam, the congregation, although comparatively large, consists of people of small incomes, and many are very poor indeed. The number of English-speaking people who come to church, *minus* Roman Catholics and those who are leaving the place on account of the bridge being finished, is about 85. Many Government and Railway servants come into Bezwada on Saturday and stay for Sunday.

Forwarded.

(Signed) J. N. ATKINSON,
Ag. Collector.

2nd May 1893.

No. 944, Ecclesiastical.

Referred to the Right Reverend the Bishop of Madras for favour of remarks.

OOTACAMUND,
29th May 1893.

(Signed) J. F. PRICE,
Chief Secretary.

From the Rev. E. SELL, B.D., Acting Bishop's Chaplain, to the Chief Secretary to Government, dated Ootacamund, 7th June 1893, No. 1194.

I have the honour, by desire of the Right Reverend the Bishop of Madras, to return the petition from the Rev. J. Harrison regarding the building of a church at Bezwada. The Bishop does not think that the church required can be built at a less cost than Rs. 14,000 and, as Mr. Harrison has raised Rs. 5,000, submits, for the favorable consideration of Government, the making of a grant of Rs. 7,000 subject to the approval of plans and estimates.

2. The Bishop further recommends that the European and the Native Christian congregations shall alike enjoy the use of the church and that this should be made a condition of the grant.

Ref. No. 1066, Ecclesiastical.

With reference to his endorsement, dated 2nd May 1893, forwarding a memorial from the Rev. J. Harrison praying for a grant towards building a church at Bezwada, the Collector of Kistna is requested to report the number of Protestant European British born subjects, including women and children, resident in that town.

16th June 1893.

(Signed) J. F. PRICE,
Chief Secretary.

From the Rev. J. HARRISON, Missionary, C.M.S., to the Collector of Kistna, dated Kankipad, 21st July 1893.

I have the honour to comply with your request in connection with the proposed new church at Bezwada as to the number of the Protestant population and do so with pleasure.

2. As the people of Sitanagaram and Thadepalli also come, I have put down their names also.

3. The total, as you will see by the enclosed list, is 130.

4. Some have gone away since the bridge was opened, but more will come back when the new station is built.

5. Bezwada is a place to which people come in from outside places on Sundays a good deal, and as it continues to increase year by year it would be a mistake to build a church that may be in a few years too small for the congregation. I beg, therefore, that these points may be laid before Government.

No. 702-Eng.

Copy, with the enclosed list, forwarded to the Chief Secretary to Government in the Ecclesiastical Department, with reference to memorandum No. 1066, dated 16th June 1893.

MASULIPATAM,
29th July 1893.

(Signed) J. N. ATKINSON,
Ag. Collector.

No. 1453, Ecclesiastical.

Transferred to the Public Works Department.

OOTACAMUND,
19th August 1893.

(Signed) J. F. PRICE,
Chief Secretary.

Minute by the Honorable Sir HENRY E. STOKES, K.C.S.I., dated 21st September 1893.

The Government of India would have let the Perambúr grant stand because it had been sanctioned, though under a misapprehension of the rules, by this Government. The case is not a precedent.

2. The contention that Government has saved Rs. 15,000 by the action of the Church Missionary Society is unfounded. It is only clergymen appointed to do the duties of a chaplain on the regular establishment who are entitled to an allowance of Rs. 100 a month (Civil Service Regulations, Article 665). No chaplain has ever been appointed to Bezwada, nor has it ever been recognized as a station to be visited occasionally by a chaplain (see list at pages 204, 205 of Quarterly Civil List). If the allowance had ever been applied for, it would not have been granted. All that is stated in the papers is, that there are 130 Protestant Christians, of whom 77 are Europeans. In my opinion the expenditure of public money in aid of Christian worship should be kept within the narrowest possible limits and should be as nearly as possible restricted to supplying the needs of British troops. Civil Servants of Government, and, still more, Christians not in the service of Government, should supply themselves with any ecclesiastical conveniences which they may require. The rules which have been laid down for the regulation of aid to Christian communities should be worked with the utmost strictness.

3. Under these rules, or independent of them, I am unable to see a shadow of a case for the proposed grant, and I cannot assent to this application.

Telegram from the Collector of Kistna, to the Secretary to Government, Public Works Department, dated Masulipatam, 7th October 1893.

Your telegram, 29th September. European subjects number 77. Besides four left station.

ORDER—dated 24th October 1893, No. 2690 W., Public Works.

Ordered that the Government of India be addressed.

[Here enter No. 2691 W., dated 24th October 1893.]

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O., 24th Oct. 1893, No. 2690 W.

OCTOBER.

Anglican Church at Bezwada

Ordered that the Government of India be addressed on the subject of a grant being made towards the construction of an —.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Letter—from

J. HANNAN, Esq.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

The SECRETARY to the GOVERNMENT of INDIA,
Public Works Department.

Sir,

I have the honour to request that the sanction of the Government of India may be obtained as a special case to a grant of Rs. 7,000 being made towards the construction of an Anglican church at Bezwada in the Kistna district.

2. A sum of Rs. 5,000 has been collected by the Rev. J. Harrison, a Missionary of the Church Missionary Society, towards the construction of the proposed building which is estimated to cost Rs. 14,000. Mr. Harrison undertakes to be responsible that the private subscriptions shall be increased to Rs. 7,000, and he now applies for a grant of Rs. 7,000 from Government. This Government is disposed to treat the application favorably on account of the peculiar position of Bezwada and its growing importance. Possessing a considerable trade owing to its situation in connection with the canal traffic of the Kistna delta, the town has in recent years increased rapidly in size and population. The latter has risen during the decade 1881 to 1891 from 10,098 to 20,741 and is still yearly increasing. It is the head-quarters of the Head Assistant Collector of the Kistna district and of the Superintending Engineer, II Circle, and the fact of its being the point where so many railway systems meet adds to its importance. The congregation which now attends divine service at the station numbers 130 British born subjects and persons of European descent, and includes several servants of Government and of the East Coast Railway.

3. I am also to point out that, since 1864, all ecclesiastical work in the Kistna district has been performed gratuitously by the missionaries of the Church Missionary Society. No chaplain has been stationed at Masulipatam, the chief civil station of the district, since the date mentioned, and the Church Mission Society's missionaries who have during that period voluntarily undertaken the spiritual charge of the station of Bezwada might, and probably would, have been given an annual grant for their services, had they not been prohibited by the rules of their society from asking for it. The result of their gratuitous labour has thus been a considerable saving to Government, which would have amounted, if the grant had only been Rs. 50 a month, to a sum of about Rs. 15,000 during the last 25 years.

4. His Excellency the Governor in Council trusts that, under the circumstances represented, the Government of India will accord their sanction to the grant applied for being made from Provincial funds. Such a grant only represents at 4 per cent. the capitalization of a monthly grant of Rs. 23⅓.

5. The Honorable Sir H. E. Stokes dissents from this recommendation and has recorded a minute of which I am to enclose a copy.

I have the honour to be,
Sir,
Your most obedient servant,
(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

Ootacamund,
24th October 1893.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

24th October 1893, No. 2661 W.

OCTOBER.

Anglican Church at Bezwada

Requesting that a grant of Rs. 7,000 be made towards the construction of an — as a special case.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From the Superintending Engineer, II Circle, dated	23rd May	1893,	No.	90 Gl.
,, ,, ,, I ,, ,,	28th June	,,	,,	189 Gl.
,, Consulting Architect to Government ,,	14th July	,,	,,	1169.
,, ,, ,, ,,	24th Aug.	,,	,,	1634.

Order—dated 24th October 1893, No. 2694 W., Public Works.

The annexed errata sheet is circulated to officers of the Public Works Department in view to the corrections indicated being made in the schedules of quantities accompanying the type plans concerned.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
,, the Consulting Architect to Government.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O., 24th Oct. 1893, No. 2694 W.

OCTOBER.

Type plans of certain Civil Buildings

Errata in estimates accompanying —, circulated to officers of the Public Works Department in view to the corrections indicated being made in the schedules of quantities.

Annexure to G.O., No. 2694 W., dated 24th October 1893.

Errata in the printed estimates circulated with the following orders of Government.

The dimensions of doors and windows of all type designs have now been calculated within frames in conformity with the instructions laid down in Appendix G to the standard specifications.

G.O., No. 435 W., dated 26th February 1880.

"First-class Police station-house, No. I design, terraced roofing."

Detailed quantities, page 6.

Teak batten doors with frames and fastenings, outer doors	*For* 2 × 3′ 9″ × 6′ 6″ = 49 square feet	*Read* 2 × 3′ 3″ × 6′ 0″ = 39 square feet
Do. windows	" 1 × 3′ 0″ × 4′ 0″ = 12 " "	" 1 × 2′ 6″ × 3′ 6″ = 9 " "

Abstract, page 8.

Teak batten doors with frames, complete	*For* 49 square feet	*Read* 39 square feet
Batten windows	" 12 " "	" 9 " "

"Second-class Police station-house, No. II design, terraced roofing."

Detailed quantities, page 11.

Teak batten entrance door with frames and fastenings	*For* 1 × 3′ 9″ × 6′ 6″ = 24 square feet	*Read* 1 × 3′ 3″ × 6′ 0″ = 20 square feet
Batten window with frames and fastenings	" 1 × 3′ 0″ × 4′ 0″ = 12 " "	" 1 × 2′ 6″ × 3′ 6″ = 9 " "

Abstract, page 13.

Batten door for entrance with frames, complete	*For* 24 square feet	*Read* 20 square feet
Batten window	" 12 " "	" 9 " "

"Third-class Police station-house, No. III design, terraced roofing."

Detailed quantities, page 16.

Teak batten door with frames and fastenings	*For* 1 × 3′ 9″ × 6′ 6″ = 24 square feet	*Read* 1 × 3′ 3″ × 6′ 0″ = 20 square feet

Abstract, page 18.

Teak batten door with frames and fastenings	*For* 24 square feet	*Read* 20 square feet

G.O., No. 1828 *W., dated 2nd August* 1880.

"First-class Police station-house, No. 1-A design, tiled roofing."

Detailed quantities, page 6.

Teak batten doors with frames and fastenings, outer door	*For* 2 × 3′ 9″ × 6′ 6″ = 49 square feet	*Read* 2 × 3′ 3″ × 6′ 0″ = 39 square feet
Do. do. do. batten window ...	„ 1 × 3′ 0″ × 4′ 0″ = 12 „ „	„ 1 × 2′ 6″ × 3′ 6″ = 9 „ „
Ventilators, wooden frames, and venetians with iron bars	„ 5 × 4′ 9″ × 1′ 9″ = 42 „ „	„ 5 × 4′ 3″ × 1′ 6″ = 32 „ „
Do. do. and iron bars at gable ends	„ 2 × 3′ 6″ × 2′ 7″ = 18 „ „	„ 2 × 3′ 0″ × 2′ 0″ = 12 „ „

Abstract, page 9.

Teak batten doors with frames and fastenings	*For* 49 square feet	*Read* 39 square feet
Do. window do.	„ 12 „ „	„ 9 „ „
Ventilators, wooden frames, and venetians with iron bars	„ 42 „ „	„ 32 „ „
Do. do. and iron bars at gable ends	„ 18 „ „	„ 12 „ „

"Second-class Police station-house, No. 2-A design, tiled roofing."

Detailed quantities, pages 11 and 12.

Teak batten door with frames and fastenings	*For* 1 × 3′ 9″ × 6′ 6″ = 24 square feet	*Read* 1 × 3′ 3″ × 6′ 0″ = 20 square feet
Batten window with frames and fastenings	„ 1 × 3′ 0″ × 4′ 0″ = 12 „ „	„ 1 × 2′ 6″ × 3′ 6″ = 9 „ „
Ventilators, wooden frames, and venetians with iron bars	„ 4 × 4′ 9″ × 1′ 9″ = 33¼ „ „	„ 4 × 4′ 3″ × 1′ 6″ = 26 „ „
Do. do. and iron bars at gable ends	„ 2 × 3′ 6″ × 2′ 7″ = 18 „ „	„ 2 × 3′ 0″ × 2′ 0″ = 12 „ „

Abstract, page 15.

Teak batten door with frames and fastenings	*For* 24 square feet	*Read* 20 square feet
Do. windows do.	„ 12 „ „	„ 9 „ „
Ventilators, wooden frames, and venetians with iron bars	„ 33¼ „ „	„ 26 „ „
Do. do. and iron bars for gable ends	„ 18 „ „	„ 12 „ „

"Third-class Police station-house, No. 3-A design, tiled roofing."

Detailed quantities, page 17.

Teak batten door with frames and fastenings	*For* 1 × 3′ 9″ × 6′ 6″ = 24 square feet	*Read* 1 × 3′ 3″ × 6′ 0″ = 20 square feet
Ventilators, wooden frames, and venetians with iron bars ...	„ 3 × 4′ 9″ × 1′ 9″ = 25 „ „	„ 3 × 4′ 3″ × 1′ 6″ = 19 „ „
Do. do. and iron bars at gable ends	„ 2 × 3′ 6″ × 2′ 4″ = 16⅓ „ „	„ 2 × 3′ 0″ × 1′ 9″ = 11 „ „

Abstract, page 20.

Teak batten door with frames and fastenings	*For* 24 square feet	*Read* 20 square feet

Ventilators, wooden frames, and venetians with iron bars	*For* 25 square feet	*Read* 19 square feet
Do. do. and iron bars at gable ends	„ $16\frac{1}{3}$ „ „	„ 11 „ „

G.O., No. 1098 *W., dated* 21*st April* 1887.

"Sub-Judge's or District Munsif's Court-house, tiled roofing."

Detailed quantities, page 5.

Venetian and panel doors with frames, outer doors	*For* 17 × 4′ 0″ × 8′ 0″ = 544 square feet	*Read* 17 × 3′ 5″ × 7′ 5″ = 431 square feet
	Total ... 544 „ „	431 „ „
Panel doors with frames, inner doors, for record and property room ...	„ 6 × 4′ 0″ × 8′ 0″ = 192 „ „	„ 6 × 3′ 5″ × 7′ 5″ = 152 „ „
	Total ... 192 „ „	152 „ „
Venetian windows with glazed shutters and iron bars	„ 4 × 4′ 0″ × 6′ 0″ = 96 „ „	„ 4 × 3′ 5″ × 5′ 5″ = 74 „ „
	Total ... 96 „ „	74 „ „
Ventilators for Court, record and property rooms	„ 9 × 4′ 0″ × 2′ 9″ = 99 „ „	„ 9 × 3′ 6″ × 2′ 3″ = 71 „ „

Abstract, page 7.

Venetian and panel doors with frames, complete	*For* 544 square feet	*Read* 431 square feet
Panel doors with frames, complete	„ 192 „ „	„ 152 „ „
Venetian windows with glazed shutters and iron bars, complete	„ 96 „ „	„ 74 „ „
Ventilators	„ 99 „ „	„ 71 „ „

G.O., No. 2008 *W., dated* 27*th July* 1887.

"Sub-Judge's or District Munsif's Court-house, terraced roofing."

Detailed quantities, page 4.

Venetian and panel doors with frames, doors in verandah	*For* 19 × 4′ 0″ × 8′ 0″ = 608 square feet	*Read* 19 × 3′ 5″ × 7′ 5″ = 481 square feet
Panel doors with frames, inner doors	„ 5 × 4′ 0″ × 8′ 0″ = 160 „ „	„ 5 × 3′ 5″ × 7′ 5″ = 127 „ „
Venetian windows with iron bars including glazed shutters	„ 4 × 4′ 0″ × 6′ 0″ = 96 „ „	„ 4 × 3′ 5″ × 5′ 5″ = 74 „ „

Abstract, page 8.

Venetian and panel doors with frames	*For* 608 square feet	*Read* 481 square feet
Panel doors with frames	„ 160 „ „	„ 127 „ „
Venetian windows with frames, iron bars and inner glazed shutters ...	„ 96 „ „	„ 74 „ „

G.O., No. 1320 *W., dated* 13*th May* 1891.

"Sub-Registrars' offices, terraced and tiled roofing."

Detailed quantities, pages 3 and 8.

Panel doors with frames and iron fastenings	*For* 2 × 4′ 0″ × 8′ 0″ =	64 square feet	*Read* 2 × 3′ 5″ × 7′ 5″ =	51 square feet
	Total ...	64 " "		51 " "
Venetian windows with frames, iron bars and inner glazed shutters ...	" 5 × 3′ 6″ × 5′ 0″ =	88 " "	" 5 × 3′ 0″ × 4′ 6″ =	68 " "
	Total ...	88 " "		68 " "
Venetian windows with frames and iron bars	" 4 × 3′ 6″ × 5′ 0″ =	70 " "	" 4 × 3′ 0″ × 4′ 6″ =	54 " "
	Total ...	70 " "		54 " "
Swing ventilators with glass and iron bars across	" 6 × 3′ 6″ × 3′ 0″ =	63 " "	" 6 × 3′ 0″ × 2′ 6″ =	45 " "
	Total ...	63 " "		45 " "

Abstract, pages 5 and 10.

Panelled doors with frames and iron fastenings including rim lock ...	*For* 64 square feet	*Read* 51 square feet
Venetian windows with frames, iron bars and inner glazed shutters ...	" 88 " "	" 68 " "
Do. do. and iron bars	" 70 " "	" 54 " "
Swing ventilators with frames, iron bars and glazed sashes	" 63 " "	" 45 " "

G.O., No. 3122 *W., dated* 20*th November* 1891.

"Second-class Taluk office, terraced roofing."

Detailed quantities, page 7.

Teak panel and venetian doors with frames and iron fittings, &c. ...	*For* 8 × 4′ 0″ × 8′ 0″ =	256 square feet	*Read* 8 × 3′ 5″ × 7′ 5″ =	203 square feet
Do. do. with gothic top, frames and fittings, complete	" 1 × 4′ 0″ × 9′ 0″ =	36 " "	" 1 × 3′ 5″ × 8′ 5″ =	29 " "
Teak panel door with frames and fittings, &c.	" 5 × 4′ 0″ × 8′ 0″ =	160 " "	" 5 × 3′ 5″ × 7′ 5″ =	127 " "
Do. do. to tower	" 2 × 2′ 6″ × 6′ 0″ =	30 " "	" 2 × 2′ 0″ × 5′ 6″ =	22 " "
	Total ...	190 " "		149 " "

Iron grated door with batten shutters and fittings	*For* 1 × 4′ 0″ × 8′ 0″ = 32	square feet	*Read* 1 × 3′ 5″ × 7′ 5″ = 25	square feet
Iron grated windows with venetian shutters outside frames and fittings, complete	" 6 × 4′ 0″ × 5′ 0″ = 120	" "	" 6 × 3′ 5″ × 4′ 5″ = 91	" "
Iron grated windows with venetian shutters and glazed tops	" 6 × 4′ 0″ × 6′ 9″ = 162	" "	" 6 × 3′ 5″ × 6′ 2″ = 126	" "
Do. do. do.	" 10 × 2′ 0″ × 6′ 3″ = 125	" "	" 10 × 1′ 6″ × 5′ 9″ = 86	" "
Do. do. do. to tower.	" 3 × 1′ 6″ × 4′ 0″ = 18	" "	" 3 × 1′ 0″ × 3′ 6″ = 11	" "
	Total ... 305	" "	223	" "
Fixed glazed ventilators with frames, complete	" 2 × 4′ 0″ × 4′ 0″ = 32	" "	" 2 × 3′ 6″ × 3′ 6″ = 25	" "

Abstract, pages 11 and 12.

			RS. A. P.		RS.			RS. A. P.		RS.
Teakwood panel and venetian doors with frames $3\frac{1}{2}'' \times 5''$ hinges, hooks and other fittings, complete	*For* 256 sq. ft.	at	1 1 0	per sq. ft.	= 272	*Read* 203 sq. ft.	at	1 5 5	per sq. ft.	= 272
Teakwood panel and venetian doors with glazed top, frames $3\frac{1}{2}'' \times 5''$ hinges and other fittings, complete	" 36 "	at	1 2 0	"	= 41	" 29 "	at	1 6 7	"	= 41
Teak panel doors with frames $3\frac{1}{2}'' \times 5''$ hinges and other fittings, complete	" 190 "	at	0 14 0	"	= 166	" 149 "	at	1 1 10	"	= 166
Iron grated doors with batten shutters and fittings, &c., to property room	" 32 "	at	2 7 0	"	= 78	" 25 "	at	3 2 0	"	= 78
Iron grated windows with venetian shutters, frames and other fittings, complete	" 120 "	at	2 8 0	"	= 300	" 91 "	at	3 4 9	"	= 300
Iron grated windows with venetian shutters and glazed top	" 305 "	at	2 8 0	"	= 763	" 223 "	at	3 6 9	"	= 763
Fixed glazed ventilators with frames, complete	" 32 "	at	1 2 0	"	= 36	" 25 "	at	1 7 0	"	= 36

"Second-class Taluk office, tiled roofing."

Detailed quantities, page 18.

Teak panel and venetian doors with frames and iron fittings, &c. ...	*For* 8 × 4′ 0″ × 8′ 0″ = 256	square feet	*Read* 8 × 3′ 5″ × 7′ 5″ = 203	square feet
Teak panel and venetian doors with glazed top frames and iron fittings, &c.	" 1 × 4′ 0″ × 9′ 0″ = 36	" "	" 1 × 3′ 5″ × 8′ 5″ = 29	" "
Teak panel doors with frames and fittings, &c.	" 5 × 4′ 0″ × 8′ 0″ = 160	" "	" 5 × 3′ 5″ × 7′ 5″ = 127	" "
Iron grated door with battened shutters and fittings	" 1 × 4′ 0″ × 8′ 0″ = 32	" "	" 1 × 3′ 5″ × 7′ 5″ = 25	" "
Iron grated windows with venetian shutters and frames and fittings.	" 6 × 4′ 0″ × 5′ 0″ = 120	" "	" 6 × 3′ 5″ × 4′ 5″ = 91	" "
Do. do. and glazed tops ..	" 6 × 4′ 0″ × 6′ 9″ = 162	" "	" 6 × 3′ 5″ × 6′ 2″ = 126	" "
Do. do. do. ...	" 10 × 2′ 0″ × 6′ 3″ = 125	" "	" 10 × 1′ 6″ × 5′ 9″ = 86	" "
	Total ... 287	" "	212	" "

Detailed quantities, page 18—*cont.*

	For		Read	
Fixed glazed ventilators with frames, complete to court	For 2 × 4′ 0″ × 4′ 0″ =	32 square feet	Read 2 × 3′ 6″ × 3′ 6″	49 square feet
Do. do do. to end rooms	„ 2 × 4′ 0″ × 4′ 0″ =	32 „ „	„ 2 × 3′ 6″ × 3′ 6″	
	Total ...	64 „ „		49 „ „

Abstract, pages 22 and 23.

	For	RS. A. P.		RS.	Read	RS. A. P.		RS.
Teakwood panel and venetian doors with frames $3\frac{1}{2}'' \times 5''$ hinges, hooks and other fittings, complete	For 256 sq. ft.	at 1 1 0	per sq. ft.	= 272	Read 203 sq. ft.	at 1 5 5	per sq. ft.	= 272
Teakwood panel and venetian doors with glazed top, frames $3\frac{1}{2}'' \times 5''$ hinges and other fittings, complete	„ 36 „	at 1 2 0	„	= 41	„ 29 „	at 1 6 7	„	= 41
Teakwood panel doors with frames $3\frac{1}{2}'' \times 5''$ hinges and other fittings, complete	„ 160 „	at 0 14 0	„	= 140	„ 127 „	at 1 1 8	„	= 140
Iron grated door with battened shutters and fittings, &c., to property room	„ 32 „	at 2 7 0	„	= 78	„ 25 „	at 3 2 0	„	= 78
Iron grated windows with venetian shutters, frames and other fittings, complete	„ 120 „	at 2 8 0	„	= 300	„ 91 „	at 3 4 9	„	= 300
Iron grated windows with glazed tops	„ 287 „	at 2 8 0	„	= 718	„ 212 „	at 3 6 2	„	= 718
Fixed glazed ventilators with frames, &c.	„ 64 „	at 1 2 0	„	= 96	„ 49 „	at 1 15 4	„	= 96

G.O., No. 2122 *W., dated* 8*th August* 1891.

"Offices for Sub-Collectors, Head Assistant Collectors or Deputy Collectors, terraced roofing."

Detailed quantities, page 5.

	For		Read	
Teak venetian and panel doors with frames, doors opening into verandah	For 8 × 4′ 6″ × 9′ 0″ =	324 square feet	Read 8 × 3′ 11″ × 8′ 5″ =	264 square feet
Teak panel doors with frames, inner doors	„ 6 × 4′ 6″ × 9′ 0″ =	243 „ „	„ 6 × 3′ 11″ × 8′ 5″ =	198 „ „
Do. inner doors for bath room and spiral staircase room ...	„ 1 × 3′ 0″ × 6′ 0″ =	18 „ „	„ 1 × 2′ 6″ × 5′ 6″ =	14 „ „
	„ 2 × 2′ 6″ × 6′ 0″ =	30 „ „	„ 2 × 2′ 0″ × 5′ 6″ =	22 „ „
	Total ...	291 „ „		234 „ „
Teak venetian windows with frames including glazed inner shutters and fittings	„ 12 × 4′ 6″ × 6′ 0″ =	324 „ „	„ 12 × 3′ 11″ × 5′ 5″ =	255 „ „
Venetian windows with frames, gothic glazed head, iron bars and brass fastenings, bath room	„ 1 × 3′ 0″ × 6′ 3″ =	19 „ „	„ 1 × 2′ 6″ × 5′ 9″ =	14 „ „

Do. do. record room	*For*	13 × 2′ 0″ × 6′ 3″ =	163	square feet	*Read*	13 × 1′ 6″ × 5′ 9″ =	112	square feet
Do. do. tower	,,	6 × 1′ 6″ × 4′ 0″ =	36	,, ,,	,,	6 × 1′ 0″ × 3′ 6″ =	21	,, ,,
		Total ...	218	,, ,,			147	,, ,,
Ventilators with fixed glazed shutters with frames, &c., to courts ...	,,	2 × 4′ 0″ × 4′ 0″ =	32	,, ,,	,,	2 × 3′ 6″ × 3′ 6″ =	25	,, ,,

Abstract, pages 8 and 9.

			RS. A. P.		RS.			RS. A. P.		RS.
Pairs of teak panel and venetian doors with frames $3\frac{1}{2}'' \times 5''$ hinges, hooks and other fittings, complete	*For*	324 sq. ft. at	1 1 0	per sq. ft.	= 344	*Read*	264 sq. ft. at	1 4 10	per sq. ft.	= 344
Pairs of teak panel doors with frames $3\frac{1}{2}'' \times 5''$ hinges and other fittings, complete	,,	291 ,, ,,	0 14 0	,,	= 255	,,	234 ,, ,,	1 1 5	,,	= 255
Pairs of teak venetian windows with glazed shutters inside, frames $3\frac{1}{2}'' \times 5''$ hinges, hooks, bolts and other fittings, complete	,,	324 ,, ,,	1 13 0	,,	= 587	,,	255 ,, ,,	2 4 10	,,	= 587
Teak venetian windows with glazed top, frames, iron bars and other fittings	,,	218 ,, ,,	1 12 0	,,	= 382	,,	147 ,, ,,	2 9 7	,,	= 382
Fixed glazed ventilators with frames, complete	,,	32 ,, ,,	1 3 0	,,	= 38	,,	25 ,, ,,	1 8 4	,,	= 38

"Offices for Sub-Collectors, Head Assistant Collectors or Deputy Collectors, tiled roofing."

Detailed quantities, page 14.

Venetian and panel doors with frames, doors opening into verandah...	*For*	8 × 4′ 6″ × 9′ 0″ =	324	square feet	*Read*	8 × 3′ 11″ × 8′ 5″ =	264	square feet
		Total ...	324	,, ,,			264	,, ,,
Panel doors with frames, inner doors.	,,	6 × 4′ 6″ × 9′ 0″ =	243	,, ,,	,,	6 × 3′ 11″ × 8′ 5″ =	198	,, ,,
	,,	1 × 3′ 0″ × 6′ 0″ =	18	,, ,,	,,	1 × 2′ 6″ × 5′ 6″ =	14	,, ,,
		Total ...	261	,, ,,			212	,, ,,

For Venetian windows with frames, gothic glazed heads, iron bars and brass fastenings.	13 × 2′ 0″ × 6′ 3″ =	163	square feet	*Read* Venetian windows with frames, gothic heads, iron bars and fastenings for record room.	,, 13 × 1′ 6″ × 5′ 9″ =	112	,, ,,
	1 × 3′ 0″ × 6′ 3″ =	19	,, ,,				
	Total ...	182	,, ,,			112	,, ,,

Detailed quantities, page 14—*cont.*

For Venetian windows with frames including glazed inner shutters and fittings ...	12 × 4′ 6″ × 6′ 0″ = 324 square feet	*Read* Venetian windows with frames including glazed inner shutters and fittings for court, clerks and private rooms ...	12 × 3′ 11″ × 5′ 5″ = 255 square feet
		„ Do. for bath room ...	1 × 2′ 6″ × 3′ 0″ = 8 „ „
Total ...	324 „ „		263 „ „
Ventilators with fixed glazed shutters		*For* 2 × 4′ 0″ × 4′ 0″ = 32 square feet	*Read* 2 × 3′ 6″ × 3′ 6″ = 25 „ „
For Ventilators fixed wire netting and frames.	2 × 4′ 0″ × 4′ 0″ = 32 square feet	*Read* Ventilators, wire netting in frames, court room ...	2 × 4′ 0″ × 4′ 0″ = 32 „ „
	2 × 4′ 0″ × 2′ 0″ = 16 „ „	Do. court room sides	2 × 4′ 0″ × 2′ 0″ = 16 „ „
	16 × 4′ 0″ × 1′ 6″ = 96 „ „		
„ Ventilators fixed wire netting for bath room.	1 × 3′ 0″ × 1′ 6″ = 5 „ „	„ Do. clerks' and private room...	16 × 4′ 0″ × 1′ 6″ = 96 „ „
Total ...	149 „ „		144 „ „

Abstract, page 18.

		RS. A. P.	RS.		RS. A. P.	RS.
Teak venetian and panel doors with frames $3\frac{1}{2}'' \times 5''$ hinges, hooks and other fittings, complete	*For* 324 sq. ft.	at 1 1 0 per sq. ft.	= 344	*Read* 264 sq. ft.	at 1 4 10 per sq. ft.	= 344
Teak panel doors with frames $3\frac{1}{2}'' \times 5''$ and other fittings, complete ...	„ 261 „	at 0 14 0 „	= 228	„ 212 „	at 1 1 2 „	= 228
Venetian windows with frames $3\frac{1}{2}'' \times 5''$ including glazed inner shutters and brass fastenings, complete	„ 324 „	at 1 13 0 „	= 587	„ 263 „	at 2 3 8 „	= 587
Venetian windows with frames, gothic glazed heads, iron bars and brass fittings	„ 182 „	at 1 12 0 „	= 319	„ 112 „	at 2 13 7 „	= 319
Ventilators with fixed glazed frames, complete	„ 32 „	at 1 3 0 „	= 38	„ 25 „	at 1 8 4 „	= 38
Do. do. wire netting and frames	„ 149 „	at 0 11 0 „	= 102	„ 144 „	at 0 11 4 „	= 102

G.O., No. 2978 *W., dated 7th November* 1891.

"Residence for Sub-Collector with out-houses, terraced roofing."

Detailed quantities, pages 13 and 17.

Teakwood doors, one-third panelled and two-thirds venetian including frames and iron fastenings, complete, opening into verandahs ...	*For* 10 × 4′ 0″ × 8′ 0″ = 320 square feet	*Read* 10 × 3′ 5″ × 7′ 5″ = 253 square feet
Teakwood doors panelled throughout including frames and iron fastenings, complete, between rooms	„ 8 × 4′ 0″ × 8′ 0″ = 256 „ „	„ 8 × 3′ 5″ × 7′ 5″ = 203 „ „
Teakwood batten doors with frames and iron fastenings for bath and store rooms	„ 4 × 3′ 6″ × 6′ 6″ = 91 „ „	„ 4 × 2′ $11\frac{1}{2}''$ × 5′ $11\frac{1}{2}''$ = 70 „ „

Venetian windows including frames and iron fastenings, complete, bed rooms	*For* 8 × 4′ 0″ × 5′ 6″ = 176 square feet	*Read* 8 × 3′ 5″ × 4′ 11″ = 134 square feet
Do. do. bath and store rooms ...	„ 4 × 3′ 6″ × 5′ 0″ = 70 „ „	„ 4 × 2′ 11½″ × 4′ 5½″ = 53 „ „
	Total ... 246 „ „	187 „ „
Ventilators with swing panelled shutters over side pivots including frames, complete	„ 28 × 3′ 0″ × 1′ 3″ = 105 „ „	„ 28 × 2′ 6″ × 0′ 9″ = 53 „ „
Ventilators with glazed shutters over side pivots including frames, complete	„ 2 × 3′ 0″ × 1′ 3″ = 8 „ „	„ 2 × 2′ 6″ × 0′ 9″ = 4 „ „
Kitchen and servants' godowns, doors	„ 4 × 3′ 0″ × 6′ 0″ = 72 „ „	„ 4 × 2′ 5½″ × 5′ 5½″ = 54 „ „
Kitchen and servants' godowns, windows	„ 4 × 3′ 0″ × 4′ 0″ = 48 „ „	„ 4 × 2′ 6″ × 3′ 6″ = 35 „ „
	Total ... 120 „ „	89 „ „

Abstract, pages 19, 20 and 21.

			RS. A. P.		RS.			RS. A. P.	RS.
Pairs of teakwood panel doors, one-third panel and two-thirds venetians including frames 3½″ × 5″ hinges, hooks, locks and other fittings, complete	*For*	320 sq. ft.	at 1 1 0	per sq. ft.	= 340	*Read*	253 sq. ft.	at 1 5 6 per sq. ft.	= 340
Pairs of teakwood panel doors including frames 3½′ × 5″ and other fittings, complete	„	256 „	at 0 14 0	„	= 224	„	203 „	at 1 1 8 „	= 224
Pairs of teak batten doors including frames 3¼″ × 4½″ hinges and other fittings, complete	„	96 „	at 0 15 0	„	= 85	„	70 „	at 1 3 5 „	= 85
Pairs of teak venetian windows including frames 3½″ × 5″ hinges, hooks, bolts and other fittings, complete	„	246 „	at 1 2 0	„	= 277	„	187 „	at 1 7 8 „	= 277
Teak venetian and swing panelled shutters over side pivots including frames and pulling ropes, &c., complete	„	105 „	at 1 3 6	„	= 128	„	53 „	at 2 6 8 „	= 128
Teak ventilators with swing glazed shutters over side pivots including frames, &c.	„	8 „	at 1 2 0	„	= 9	„	4 „	at 2 4 0 „	= 9
Junglewood batten doors and windows with frames and iron fastenings, complete, to kitchen, &c.	„	120 „	at 0 8 6	„	= 64	„	89 „	at 0 11 6 „	= 64

G.O., No. 2978 *W., dated 7th November* 1891.

" Residence for Head Assistant Collector with out-houses, terraced roofing."

Detailed quantities, pages 3 and 7.

Teakwood doors, one-third panelled and two-thirds venetianed including frames and iron fastenings, complete, doors opening into verandahs	*For* 10 × 4′ 0″ × 8′ 0″ = 320 square feet	*Read* 10 × 3′ 5″ × 7′ 5″ = 253 square feet

Detailed quantities, pages 3 and 7—*cont.*

Item	For			Read		
Doors, panelled, throughout including frames and iron fastenings, complete, between rooms ...	*For*	7 × 4′ 0″ × 8′ 0″ =	224 sq. feet	*Read*	7 × 3′ 5″ × 7′ 5″ =	177 sq. feet
Batten doors including frames and iron fastenings for bath and store rooms ...	,,	4 × 3′ 6″ × 6′ 6″ =	91 ,,	,,	4 × 2′ 11½″ × 5′ 11½″ =	70 ,,
Venetian windows including frames and iron fastenings, complete, for bed rooms.	,,	4 × 4′ 0″ × 5′ 6″ =	88 ,,	,,	4 × 3′ 5″ × 4′ 11″ }	= 86 ,,
	,,	2 × 2′ 6″ × 5′ 6″ =	28 ,,	,,	2 × 1′ 11″ × 4′ 11″ }	
Do. do. for bath and store rooms ...	,,	4 × 3′ 6″ × 5′ 0″ =	70 ,,	,,	4 × 2′ 11½″ × 4′ 5½″ =	53 ,,
		Total ...	186 ,,			139 ,,
Ventilators with swing pannelled shutters over side pivots including frames, complete ...	,,	24 × 3′ 0″ × 1′ 6″ =	108 ,,	,,	24 × 2′ 6″ × 1′ 0″ =	60 ,,
Ventilators with swing glazed shutters over side pivots including frames, complete ...	,,	2 × 3′ 0″ × 1′ 6″ =	9 ,,	,,	2 × 2′ 6″ × 1′ 0″ =	5 ,,
Doors to kitchen and servants' godowns ...	,,	3 × 3′ 0″ × 6′ 0″ =	54 ,,	,,	3 × 2′ 5½″ × 5′ 5½″ =	40 ,,
Windows to kitchens and servants' godowns ...	,,	3 × 3′ 0″ × 4′ 0″ =	36 ,,	,,	3 × 2′ 6″ × 3′ 6″ =	26 ,,
Total of junglewood doors and windows ...			90 ,,			66 ,,

Abstract, pages 9 and 10.

Item		Quantity	Rate RS. A. P.	RS.		Quantity	Rate RS. A. P.	RS.
Pairs of teakwood panel doors including frames 3½″ × 5″ hinges and other fittings, complete ...	*For*	224 sq. ft.	at 0 14 0 per sq. ft.	= 196	*Read*	177 sq. ft.	at 1 1 9 per. sq. ft.	= 196
Pairs of teakwood doors, one-third panel and two-thirds venetians including frames 3½″ × 5″ hinges, hooks, locks and other fittings, complete ...	,,	320 ,,	at 1 1 0 ,,	= 340	,,	253 ,,	at 1 5 6 ,,	= 340
Pairs of teak batten doors including frames 3¼″ × 4½″ and other iron fittings, complete ...	,,	91 ,,	at 0 15 0 ,,	= 85	,,	70 ,,	at 1 3 5 ,,	= 85
Pairs of teak venetian windows including frames 3½″ × 5″ hinges, hooks, bolts and other fittings, complete ...	,,	186 ,,	at 1 2 0 ,,	= 209	,,	139 ,,	at 1 8 0 ,,	= 209
Teak ventilators with swing panelled shutters over side pivots including frames and pulling ropes, &c., complete ...	,,	108 ,,	at 1 3 6 ,,	= 132	,,	60 ,,	at 2 3 2 ,,	= 132
Teak ventilators with swing glazed shutters over side pivots including frames, &c. ...	,,	9 ,,	at 1 2 0 ,,	= 10	,,	5 ,,	at 2 0 0 ,,	= 10
Junglewood batten doors and windows with frames and iron fastenings, &c., complete to kitchen, &c. ...	,,	90 ,,	at 0 8 6 ,,	= 48	,,	66 ,,	at 0 11 8 ,,	= 48

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

From the Supervisor in charge 4th and 5th Reaches, Commamur canal, to the Officer in charge Western Sub-division, dated 16th August 1893, No. 387.

Referring to No. 4 instruction of the new measurement book that pencil entries of measurements should not be inked but only contents, I beg to bring in to your kind notice that it will be an hazardous task for a subordinate to attach his signature at every page of measurements as ruled in No. 11 instruction, as he may not always be able to recollect his measurements within if any alteration is made in them before contents are made out, which task is to be done by clerks when the measurements are many. I therefore request special order to ink measurements before they were placed in clerks' hands as was done hitherto.

No. 1543.

Forwarded to the Executive Engineer for information. I consider instruction No. 4 given in the measurement book does require revision unless it be considered that those who take the measurements must themselves calculate the contents. But this is impossible in this division where every subordinate or officer has heavy work to measure and can't find time to calculate the contents.

(Signed) S. GOPALAKISTNA IYER,
Sub-division officer.

19th August 1893.

No. 291 S.

Forwarded to the Superintending Engineer for favour of orders.

2. I concur in the Sub-division officer's remarks.

(Signed) A. A. G. MALET,
Ex. Engr., Kistna Western Division.

22nd August 1893.

No. 1322 K.S.

Forwarded to the Chief Engineer, Public Works Department.

2. I consider the measurements should be inked in by the officer who measures the work.

(Signed) J. W. MARTIN,
Superintending Engineer, II Circle.

30th August 1893.

Office-note from the Examiner, Public Works Accounts, dated 22nd September 1893, No. 1065 D.

The point raised is one on which I, as an audit officer, do not feel competent to express an opinion of any practical value.

2. I may, however, add that two other officers, Mr. G. F. Handcock, Executive Engineer, Ganjám division, and Mr. R. A. Streenivasa Aiyangar, Executive Engineer, Gódávari Western division, have urged an alteration in the rule, which is based on Government of India Circular No. 23 P.W. of 1889. Copies of their letters * are herewith sent.

* Letter No. 1024, dated 24th June 1893, from the Executive Engineer, Ganjám division. Endorsement No. 45, dated 15th June 1893, from the Executive Engineer, Gódávari Western division.

3. I would suggest that, if considered desirable, the matter be represented to the Government of India.

ENCLOSURES.

COPY of letter from the Executive Engineer, Ganjám division, to the Examiner, Public Works Accounts, dated 24th June 1893, No. 1024.

With reference to your No. 1, dated 9th June 1893, forwarding ten measurement books Nos. 4 to 13 (Form E. No. 73) for use in this division, I have the honour to request to be informed as to why books Nos. 1 to 3 have not been sent to this office.

2. As it seems that the existing measurement books are no longer required for use, please arrange for the despatch of 20 more new books as soon as possible.

3. Referring to rule 4 of the printed instructions, I have to inquire whether it is necessary for me and my subordinates to carry ink bottles, pens when going out to take measurements on works.

Copy of letter from the Executive Engineer, Gódávari Western Division, to the Superintending Engineer, I Circle, dated 15th June 1893, No. 199 S.

I have the honour to bring the following to your notice for favour of orders.

According to the Madras Public Works Code, all entries in a measurement book should be inked in the same day by the person taking the measurements. But this rule has lately been superseded by the rule introduced by the Government of India Code, volume I, chapter XII, paragraph 96 D, which says that the entries in a measurement book should be made in ink as far as possible, and when this is not possible the entries should not be inked over, but the totals should be inked. It is not possible to enter the measurements in ink as we cannot take ink bottles and pens to the field. It is therefore necessary to adopt the latter alternative. I noticed lately that the impression made by the pencils used by some subordinates was so faint that it would not be possible to decipher them after the lapse of a few days. In such cases the inking of pencil entries is absolutely necessary. There is also another disadvantage in having the pencil entries as they are. When the Sub-divisional officer or other subordinate check-measures a work, he makes certain corrections and is obliged to leave the book with the subordinate. If the latter is a dishonest man, he may rub out several of the pencil entries and insert fresh ones instead, and it will not be possible for anybody to find it out. As the book has to pass through the hands of several clerks who will be engaged in checking the calculations, there is room for these people to alter the entries if they are so disposed. You may say that if the contents are inked there should be no room for such fraud. All the measurements in this division are taken in the last few days before the reopening of the canals, and if the Sub-divisional officer is himself to calculate and ink the totals and then hand the books over to the clerks for the preparation of the bill, it may take months after months and the Sub-divisional officers will have to sit at home calculating the measurements, leaving all important out-door works to take care of themselves. As there is so much inconvenience and room for fraud by following this rule, I should think that the old Madras rule ought to be revived. As a Sub-divisional officer I referred the matter to the late Executive Engineer, who, agreeing with me, ordered me to follow the Madras rule; but the Examiner objected to the procedure in the report of his inspection of the division office. I have therefore brought the matter to your notice with a request that you will move the Government about reviving the old Madras rule.

No. 45.

Copy to the Examiner, Public Works Accounts, Madras, with reference to paragraph 2 of his No. 194 A, dated 2nd June 1893.

(Signed) R. A. STREENIVASA AIYANGAR,
Ex. Engr., Gódávari Western Division.

15th June 1893.

ORDER—dated 24th October 1893, No. 2709 W., Public Works.

Ordered that the Government of India be addressed.

[Here enter No. 2710 W., dated 24th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To Superintending Engineers.
,, the Consulting Architect to Government.
,, the Superintendent of Works, Periyár Project.
,, the Examiner of Public Works Accounts.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O., 24th Oct. 1893, No. 2709 W.

OCTOBER.

Measurement Book

Ordered that the Government of India be addressed regarding the continuance of the practice hitherto in Madras for officers to make pencil entries in the — at the site of works and to have them inked in themselves on the same day.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

LETTER—from

J. HANNAN, Esq.,
Ag. Joint Secy. to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

I am directed to request that the attention of the Government of India be invited to the procedure laid down in paragraph 96 D, chapter XII of the Public Works Code. It is there prescribed that the entries in the measurement book should, if possible, be made in ink, but where this is not possible and entries have to be made in pencil, the pencil entries should not be inked over but left untouched.

2. It has been pointed out that to comply with these instructions it will be necessary, at much personal inconvenience, for officers to carry with them to the site of works a bottle of ink, and that should they not do so, but prefer to enter their measurements in pencil, they are precluded from rendering these entries indelible and preventing their subsequent erasure or modification by unscrupulous subordinates through whose hands the measurement books must sometimes pass for calculation of contents or preparation of bills.

3. His Excellency the Governor in Council considers that these objections are of a serious character and should, if practicable, be removed. The practice hitherto obtaining in Madras has been for officers to make pencil entries of measurements at the site of works and on the *same* day to ink them in *themselves,* and His Excellency in Council would prefer to see this system continued, unless an indelible pencil, or a fountain pen such as the swan pen which is now being sold in the local market, can be used. As regards the former, it has been found from experience that the so-called indelible pencils advertised for sale do not make permanent impressions, and that the marks can be removed almost as easily as those made by the ordinary blacklead pencil; and that with respect to the latter, the cost, Rs. 8–8–0 per pen, seems an insuperable objection to its introduction at Government expense. If used at all, the pens should, it is considered, be purchased at the expense of the officers or subordinates themselves.

4. His Excellency the Governor in Council is, however, inclined to think that the continuance of the Madras system will most readily solve the difficulties brought to notice.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

OOTACAMUND,
24th October 1893.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

24th October 1893, No. 2710 W.

OCTOBER.

Measurement Book

Requesting sanction to the continuance of the practice hitherto in Madras for officers to make pencil entries in the — at the site of works and to have them inked in themselves on the same day.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers :—

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer for Irrigation, dated Coimbatore, 18th August 1893, No. 210 E.I.

With reference to your No. IV/22 C.I., dated 10th July 1893, and my No. 167 E.I., dated 27th June 1893, submitting a proposition statement for a surveyor to be employed on the Bhaváni project, I have the honour to state that, after inspection of the ground, I find that it will be quite impossible for one surveyor to complete the work to be done in four months. Cross sections in the first twenty miles on account of the ground I have ordered to be taken at half mile intervals ; after that at one mile intervals. It is proposed to level only down to the Korangapallam river instead of to the Noyel, as the area commanded down to the former is very considerably in excess of the 50,000 acres which are ever likely to be irrigated from the reservoir. The number of miles of cross sections to be done is with check lines about 730 including 112 miles on the north of the Bhaváni. This alone will take 292 days at $2\frac{1}{2}$ miles a day, or including Sundays 332 days. After these levels have been completed, it will be necessary to level along the line that may be chosen for the channel, say another 80 miles. I am of opinion therefore that the levelling with one surveyor will take one year at least.

2. After the levels have been taken, I consider that a special officer should be put on the preparation of the plans and estimates. There are several very important points to be settled and which cannot be settled without a very close and careful examination of the ground. Among these may be enumerated—

(1) *Site of dam.*—I am not at all sure that it will not be found that the lower site is not after all better than the higher. The 6 miles of extra main channel from the higher site will pass though difficult ground, will be expensive and much of the land commanded is stoney and even rocky. The channel from the lower site will command better land, labour will be easier to procure and rates will be lower than at the higher site, which is besides said to be feverish.

(2) There is ample land commanded from the lower site and all the way down of a better quality than the high lands commanded from the upper site.

(3) A continuous trench, or at all events very frequent trial pits, must be cut along whichever site may be chosen for the dam.

(4) Location of quarries, &c., require careful examination of the ground.

(5) The alignment of main channel will require the utmost care as the ground is difficult and often rocky.

3. On these grounds and others of a minor kind, I consider that a special officer of considerable experience in irrigation should be employed on the work.

From the same officer, dated Coimbatore, 2nd September 1893, No. 226 E.I.

Adverting to your memorandam No. IV/27 C.I., dated 30th ultimo, I have the honour to forward, herewith, a proposition statement of survey establishment required for the investigation of Bhaváni reservoir project, and to request you will be good enough to obtain the sanction of Government to the same in supersession of the one sanctioned in G.O., No. 1897 W., dated 21st July 1893.

No. 48 E.W.

Forwarded to the Chief Engineer, General, Buildings and Roads Branch, with a recommendation that the survey establishment asked for be sanctioned and that a special officer be deputed at an early date to thoroughly investigate the project.

2. Superintending Engineer's letter No. 210 E.I., dated 18th August 1893, is forwarded for perusal and favour of return.

MADRAS,
9th September 1893.

(Signed) F. W. ASHPITEL,
for Chief Engineer for Irrigation.

ORDER—dated 24th October 1893, No. 2711 W., Public Works.

The entertainment for twelve months of a surveyer on Rs. 115 * per mensem for investigations connected with the Bhaváni reservoir project in the Coimbatore division is sanctioned.

* Includes Rs. 15, horse allowance.

2. This sanction has been registered as Provincial No. 47 W. of 1893–94 and classified as Establishment, Temporary. It supersedes the sanction given in G.O., No. 1897 W., dated 21st July 1893.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P. W. D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, IV Circle.
,, Examiner, Public Works Accounts.
,, Chief Engineer for Irrigation.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O., 24th Oct. 1893, No. 2711 W.

OCTOBER.

Bhavani Reservoir Project

The entertainment for twelve months of a surveyor on Rs. 115 per mensem for investigations connected with the — in the Coimbatore division, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers :—

Memorandum, dated 12th August 1893, No. 690 D.

From the Superintending Engineer,	I Circle,	dated 19th August 1893,	No. 322 Gl.
" " "	II "	" 28th " "	" 270 Gl.
" " "	III "	" 16th " "	" 1301.
" " "	IV "	" 15th " "	" 319 E.W.
" " "	V "	" 25th Sept. "	" 337 W.
" " "	VI "	" 14th August "	" 682 T.C.

" Consulting Architect, dated 15th August 1893, No. 1526.

ORDER—dated 24th October 1893, No. 2720 W., Public Works.

His Excellency the Governor in Council considers it desirable to improve the clerical staff of the Public Works Department in the mofussil by introducing a class of better educated men than those obtainable under the present system of recruiting, and accordingly directs that one appointment in the 4th class, 2nd grade, on Rs. 30—40, shall be reserved in each circle on the occurrence of the first vacancy in each calendar year for men who have passed either the F.A. or B.A. examination.

2. In the event of candidates possessing these qualifications not being available, Superintending Engineers will report the matter for the orders of the Chief Engineer.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To all Superintending Engineers.
" the Examiner, Public Works Accounts.
" the Consulting Architect.
" the Chief Engineer for Irrigation.
Editors' Table.

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. *Encl.*

G.O., 24th Oct. 1893, No. 2720 W.

OCTOBER.

Clerical Staff of the Public Works Department

Issuing orders for the improvement of the — in the mofussil by the introduction of a class of better educated men than those obtainable under the present system of recruiting.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

G.O., dated 13th September 1893, No. 893, Financial.
From the Chairman, Municipal Council, Ootacamund, dated 5th October 1893, No. 1436.
" " " " " 10th " " " 1456.
Endorsement from the Chairman " " " 12th " "

ORDER—dated 26th October 1893, No. $\frac{2738}{A.}$ W., Public Works.

The Government understands that His Excellency the Governor has no objection to the straightening of the bed of the stream in the valley below Lower Norwood from about 100 yards below the point A as shown on the Ootacamund Municipal Engineer's plan No. 2, nor to the silting away of the ground on either side of the stream at this point. The work may therefore proceed as proposed.

2. The Director of Parks and Gardens, in whose custody the land is, should have been consulted before any work was actually carried out on it. He will now be requested to give every assistance in his power in aiding the progress of the work.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Local and Municipal Department.
" Revenue Department.
" Superintending Engineer, IV Circle.
" Chairman, Municipal Council, Ootacamund, through the Local and Municipal Department, with eleven enclosures.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 26th.

Recd. *Encl.*

G.O., 26th Oct. 1893, No. $\frac{2738}{A.}$ W.

OCTOBER.

Ootacamund Lake

Passing orders on certain proposals in connection with the reclamation of the upper portion of the — by the silting process.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From A. G. CARDEW, Esq., M.A., C.S., Inspector-General of Jails, to the Chief Secretary to Government, dated Ootacamund, 28th September 1893, No. 4479.

I have the honour to submit, for the approval and sanction of Government, plans and estimates, amounting to Rs. 620, for constructing a verandah to the new guard room at Her Majesty's Penitentiary, Madras.

2. This work was omitted through oversight from the estimates for Rs. 49,440 which received the sanction of Government in G.O., dated 13th April 1893, No. 1023 W., and as it is very desirable that a verandah should be provided to the guard room, this supplementary estimate has been prepared by the Consulting Architect, who states that as it is a development of a project already sanctioned, it needs the sanction of Government under paragraphs 31 and 32, chapter VII, Government of India Public Works Code. The present guard room has a verandah.

No. 1795, Judicial.

Approved and transferred to the Public Works Department in continuation of endorsement No. 146, dated 24th January 1893, Judicial.

(By Order.)

OOTACAMUND,
7th October 1893.

(Signed) A. BUTTERWORTH,
Under Secretary.

ORDER—dated 26th October 1893, No. 2745 W., Public Works.

The estimate, amounting to Rs. 620, for constructing verandahs to the new guard room at Her Majesty's Penitentiary, Madras, is sanctioned as supplemental to the estimate of Rs. 49,440 sanctioned in G.O., No. 1023 W., dated 13th April 1893.

2. The current year's grant for improvements and additions to the Penitentiary now stands at Rs. 32,000.

3. This sanction has been registered as Provincial No. 100 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Consulting Architect to Government,
with plan and estimate (3).
„ Examiner, Public Works Accounts.
„ Judicial Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 26th.

Recd. *Encl.*

G.O., 26th Oct. 1893, No. 2745 W.

OCTOBER.

Her Majesty's Penitentiary, Madras

Supplemental estimate of Rs. 620 for constructing verandahs to the new guard room at —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From the Executive Engineer, Kurnool division, to the Superintending Engineer, III Circle, dated 19th September 1893, No. 222.

With reference to paragraph 1 (item 2) of G.O., No. 1568 W., dated 13th June 1893, I have the honour to submit, herewith, a supplemental statement giving data for calculation of rent for such portion of the Kristnapuram bungalow as is to be occupied as residence by the Sub-divisional officer.

2. In the statement is also included the Anicut Superintendent's quarters at Sunkesala, for which a rent of Rs. 1–8–0 is sanctioned for the present occupant in G.O., No. 2308 W., of 19th August 1892, at the desire of the Examiner to have the normal rent also fixed for the building.

ENCLOSURE.

STATEMENT giving data for calculation of rents of buildings in Kurnool division.

Item number.	Name of building.	Official designation and salary of occupant.	Whether permanent or temporary (P. or T.).	Date of completion or purchase.	Capital cost. — Cost of construction or purchase.	Capital cost. — Establishment and tools and plant, 10 per cent. on an amount in column (6).	Capital cost. — Cost of site.	Capital cost. — Total.	Four per cent. on capital cost, column (9).	Actual average cost of repairs. — Cost of repairs.	Actual average cost of repairs. — Ten per cent. for establishment and tools and plant.	Actual average cost of repairs. — Total.	Estimated cost of repairs when actual is not known.	Normal rate of rent, &c. — Annual, 10 + 13 or 10 + 14.	Normal rate of rent, &c. — Monthly, column $\frac{15}{12}$.	Rent paid prior to 7th Sept. 1888.	Rent to be charged. — Yearly.	Rent to be charged. — Monthly.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
					RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1	Canal Sub-Divisional officer's quarters at Kistnapuram— *Plinth area.* S. FT. Upper story .. 2,598·16 Lower do. .. 3,313·16 5,911·32 or 5,911	Mr. J. C. Dennehy, Sub-Engineer, 3rd grade, Rs. 250	P.	Purchased in 1882–83. Improvements in 1883–84. Do. in 1890–91.	11,760 1,149 342	.. 115 34	A.	13,400	536	B. 196	20	216	..	752	$62\frac{8}{12}$	..	756	63	The upper story is reserved for inspecting officers; portion of the lower story is to be used as Sub-divisional office and the rest as the residence of the Sub-divisional officer.
				Total for the whole building.	13,251	149													
				Portion occupied as residence—actual plinth area, 1,794·61 or 1,794 sq. ft.	4,022	45	..	4,067	163	59	6	65	..	228	19	..	228	19	
2	Anicut Superintendent's quarters at Sunkesala.	D. Joseph Pillai, Anicut Superintendent, pay Rs. 30.	P.	April 1893	740	74	6	820	33	..	..	..	25	58	$4\frac{10}{12}$	..	60	5	For the present occupant a rate of Rs. 1-8-0 per mensem was sanctioned in G.O., No. 2308 W., dated 19th August 1892.

A. Cost of site included in the purchase money. B. Average of actual cost from 1882–83.

KURNOOL,
19th September 1893.

(Signed) J. C. JOHNSTON,
Executive Engineer.

No. 1632.

Copy forwarded to the Chief Engineer, Public Works Department, for favour of sanction.

25th September 1893.

(Signed) A. T. FRASER, Col., R.E.,
Superintending Engineer, III Circle.

Office-note from the Examiner, Public Works Accounts, dated 16th Oct. 1893, No. 1396 D.

ORDER—dated 26th October 1893, No. 2747 W., Public Works.

The statement is approved.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, III Circle.
" Examiner, Public Works Accounts.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 26th.

Recd. *Encl.*

G.O., 26th Oct. 1893, No. 2747 W.

OCTOBER.

Rents

The statement giving data for calculation of — of certain buildings in the Kurnool division, approved.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From W. AUSTIN, Esq., I.C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 17th October 1893, No. 2297.

I have the honour to acknowledge the receipt of G.O., dated 28th September 1893, No. 2490 W., Public Works, and to request that the indent for pine planks referred to therein may be cancelled as the Board's Engineer will arrange for the supply locally of teak planks instead.

No. 1860, Marine.

Transferred to the Public Works Department.

OOTACAMUND,
18th October 1893.

(Signed) J. F. PRICE,
Chief Secretary.

ORDER—dated 26th October 1893, No. 2748 W., Public Works.

Ordered that the Director-General of Stores be informed accordingly.

[Here enter No. 2749 W., dated 26th October 1893.]

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Chairman, Harbour Trust Board.
,, Marine Department.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 26th.

Recd. *Encl.*

G.O., 26th Oct. 1893, No. 2748 W.

OCTOBER.

Indent

Ordered that the Director-General of Stores be informed that the — for pine planks may be cancelled.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

J. HANNAN, ESQ.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
General, Buildings and Roads Branch,

To

THE DIRECTOR-GENERAL OF STORES,
INDIA OFFICE, LONDON.

SIR,

Adverting to your letter No. S.D.O. 2798, dated 30th August 1893, I am directed to request that the indent therein referred to for pine planks may, under the circumstances stated, be cancelled.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

FORT ST. GEORGE,
26th October 1893.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 26th.

Recd. *Encl.*

26th October 1893, No. 2749 W.

OCTOBER.

Indent

Requesting that the — for pine planks may be cancelled.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From Colonel A. T. FRASER, R.E., Superintending Engineer, III Circle, to the Chief Engineer, Public Works Department, dated Bellary, 7th September 1893, No. 1694.

I have the honour, in terms of G.O., No. 922 W., dated 10th April 1893, to forward an estimate for repairs and improvements to the forest rest-house at Nandyal prepared by the Executive Engineer, Kurnool division, amounting to R[illegible],700, funds for which I would request may be placed at disposal.

2. The work necessary is to remedy the present roof leakage by putting on Mangalore tiles over boarding ; also, as there are cracks in the east face of the building owing to its standing on an undrained site, supporting the wall by buttresses. Beyond these items the main building only wants a few ordinary repairs.

3. The whole site wants draining into the irrigation channel behind to which there is a slight but adequate fall. This is of essential importance as the whole place is a swamp of cotton soil in the rains.

4. The stables and servants' houses are lower than the rest-house and the floors almost on ground level. Unless they are raised by 2 feet as estimated, they are not occupiable in wet weather or healthy at any time.

5. A small latrine is required on the premises.

ORDER—dated 27th October 1893, No. 2754 W., Public Works.

The estimate, amounting to Rs. 2,700, for repairs and improvements to the forest bungalow at Nandyal in the Kurnool district, is sanctioned for early execution, and the amount is appropriated from the Provincial reserve.

2. This sanction has been registered as Provincial No. 101 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, III Circle,
with plans and estimate.
" Examiner, Public Works Accounts.
" Revenue Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 27th.

Recd. *Encl.*

G.O., 27th Oct. 1893, No. 2754 W.

OCTOBER.

Forest Bungalow at Nandyal

Estimate of Rs. 2,700 for repairs and improvements to the — in Kurnool district, sanctioned for early execution.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 4th October 1893, No. 637 M.D.

I have the honour to submit, for the sanction of Government, the accompanying revised estimate of Rs. 9,720 for alterations and improvements to Tirumala Naick's Palace at Madura.

2. An estimate of Rs. 7,070 was first sanctioned in G.O., No. 1290 W., of the 11th May 1891, for the above work, and afterwards another, amounting to Rs. 1,500, was sanctioned in G.O., No. 397 W., of the 8th February 1892, as supplemental to the above, for furniture required for the Revenue offices located in the palace. These two amounted to Rs. 8,570 and the net excess over this sum comes to Rs. 1,150.

3. The above excess is attributed to the following causes :—

		Excess.
		RS.
(1) Insufficient rate allowed in the original estimate for iron railings and additional railings required owing to the breaking of some in transit, also omission in the estimate of provision for fitting up the railings		453
(2) Work found necessary during construction but omitted in the former estimate		370
(3) Mistakes in measurements in the original estimate		733
		1,556
Deduct—	RS.	
Savings in treasury cage	218	
Contingencies	188	
		406
Net excess ...		1,150

4. Rs. 9,419 were spent on the work up to last year and Rs. 883 up to August in the current year, or in all Rs. 10,302, but Rs. 1,200, an over-payment made to Messrs. Richardson and Cruddas for cast iron railings, having been since recovered and credited to the work.

ORDER—dated 27th October 1893, No. 2755 W., Public Works.

The revised estimate, amounting to Rs. 9,720, for alterations and improvements to Tirumala Naick's Palace at Madura, is sanctioned in supersession of the estimates aggregating Rs. 8,570 sanctioned in G.Os., No. 1290 W., dated 11th May 1891, and No. 397 W., dated 8th February 1892.

2. From the last paragraph of the Superintending Engineer's letter recorded above, it appears that no appropriation of funds is necessary for the work in the current official year.

3. This sanction has been registered as Provincial No. 102 W. of 1893–94 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Superintending Engineer, VI Circle,
with four enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 27th.

Recd. *Encl.*

G.O., 27th Oct. 1893, No. 2755 W.

OCTOBER.

Tirumala Naick's Palace at Madura

Revised estimate of Rs. 9,720 for alterations and improvements to —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following paper :—

From the Director-General of Stores, India Office, to the Joint Secretary to Government, Public Works Department, General, Buildings and Roads Branch, dated Whitehall, S.W., 13th October 1893, No. 9378 S.

With reference to your letter No. 1882 W., dated 21st July 1893, I have the honour to inform you that the cost of the spare parts of disintegrators will be £111-10-0 exclusive of freight to India.

Order—dated 31st October 1893, No. 2764 W., Public Works.

Communicated to the officers concerned with reference to G.O., No. 1881 W., dated 21st July 1893.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintendent of Works, Periyár Project.
" Examiner, Public Works Accounts.
" Superintending Engineer, V Circle.

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 31st.

Recd. *Encl.*

G.O., 31st Oct. 1893, No. 2764 W.

OCTOBER.

Periyar Project

Letter from the Director-General of Stores, India Office, intimating the cost of the spare parts of disintegrators indented for Periyár No. I Division, communicated to officers concerned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 6th August 1893, No. 424 M.D.

I have the honour to submit, for the sanction of Government, the undermentioned revised estimates for the two bridges over the Suruliyár river in the Madura division :—

	RS.
1. Bridge at Virapandi	40,600
2. Do. at Uttamapálaiyam	42,800

2. In G.O., No. 135.W., of the 16th January 1891, estimates of Rs. 31,900 for the first and Rs. 36,840 for the second were sanctioned, and the excesses over these estimates are due, in both cases, to the increase in rates and to the extension of the wings by 8 feet.

3. *Rates.*—The necessity for the increase in rates for work in the Cumbum valley has been recognized by former Superintending Engineers; and, considering that all skilled labour has to be imported from Madura, Trichinopoly and Tanjore, I agree with their opinions. The data now submitted will also bear out the necessity for the rates allowed in the present estimates.

4. *Extension of wings.*—The length of the wings has been increased by 8 feet as the river is very rapid and there will be a tendency to scour the approaches. The soil at the slope originally adopted would not stand the current and would have had to be revetted.

5. The progress of the two works has not been very satisfactory owing to the failure of the contractors and also to the difficulties experienced by them. The original contract for the Uttamapálaiyam bridge has been already cancelled under the authority conveyed in your No. 5314 C. of the 15th December 1892. The contractor for the other bridge having, in spite of repeated warnings, failed to complete the work according to the terms of his agreement or to make satisfactory progress, I have, on the strong recommendation of the Executive Engineer, ordered his accounts also to be closed. Fresh contracts for the two works will be submitted, if necessary, on receipt of certain information from the Executive Engineer.

From A. H. GARRETT, Esq., Executive Engineer, Madura division, to the Superintending Engineer, VI Circle, dated 10th October 1893, No. 441 S.E.

Referring to your No. 601 of 22nd September 1893, I have the honour to inform you that the only other large work in the Cumbum valley suitable for comparison with the bridges at Virapandi and Uttamapálaiyam is the Koravanuth bridge, about 10 miles from Uttamapálaiyam. This bridge has 3 spans 40 feet each and was built in 1890.

2. I enclose a statement giving the estimated and actual rates paid at the Koravanuth bridge for certain descriptions of work and also the corresponding rates allowed in the revised estimates for the Virapandi and Uttamapáliayam bridges.

3. You will observe that the rate paid for the dressed facing stones used for Koravanuth bridge was Rs. 66–6–6 per 100 cubic feet. These stones have a chisel draft round the edges, the bed joints are horizontal and the side joints vertical. All the stones in each course are of the same thickness. Omitting the chisel draft, the work is almost exactly the same as the work for which a rate of Rs. 37 has been allowed in the revised estimate for the Virapandi bridge and Rs. 30 in the original and revised estimates for the Uttamapálaiyam bridge.

For hammer dressed rubble in surki mortar, the estimated and actual rates at the Koravanuth bridge were Rs. 18 and Rs. 22–1–8 respectively. In the revised estimate for the Uttamapálaiyam bridge, Rs. 20 has been allowed for this description of work and Rs. 26 in the revised estimate for the bridge at Virapandi. The higher rate at Virapandi is on account of the distance stones had to be carted.

For brick arch work the rate allowed in the revised estimates for the Suruliyár bridges exceeds the rate paid at the Koravânuth bridge by Rs. 6–6–0. The cost of firewood, however, was far higher than at Koravanuth. The bricks at Virapandi and Uttamapálaiyam cost over Rs. 13 per 1,000, which is the same as had to be paid for table-moulded bricks at the Vaigai bridge in Madura.

For cutstone the rate allowed in the revised estimates is Rs. 1–8–0 per cubic foot, which is 4 annas a cubic foot more than was paid at Koravanuth. This rate may appear high; but the stone is very difficult to work, and I do not consider the rate an extravagant one.

4. The Chief Engineer has observed that the data submitted with the revised estimates are worthless. The data were prepared by Mr. Hughes and accepted with the original estimates. I have only altered the cost of the cartage where the distances were incorrect and slightly raised the wages of work people.

5. I regret that the reports accompanying the revised estimates were so worded as to convey the impression that I had sanctioned the increased rates. Work has only been paid for at sanctioned rates, but the contractors and piece-workers have been promised the revised rates if they are sanctioned, and probably would not have gone on with the work unless they thought they had a good chance of being paid at the revised rates.

6. When I cancelled the contract for the Virapandi bridge, I ordered the work to be carried out by departmental agency. This was done for 8 days when the sub-division officer found it was costing more than was allowed in the revised estimate, and accordingly the work is now being continued by piece-workers.

7. At Virapandi there will not be much work to be paid for at revised rates if they are sanctioned, as the late contractor who nearly completed the work has forfeited all claims to be paid the higher rates by his failure to complete the work within the time allowed.

8. I beg to state, in conclusion, that, considering the style of the work, the rates are not at all out of the way. Both bridges have been very well built and remarks to this effect have been made by both the Chief and Superintending Engineers. I may also add that for the Chattraputty anicut and head sluice near the Virapandi bridge a rate of Rs. 30 for coursed rubble has recently been passed by the Superintending Engineer.

No. 666 M.D.

Copy submitted to the Chief Engineer, Public Works Department, with reference to his No. 866 D., dated 18th September 1893.

2. The revised plans and estimates for the Virapandi and Uttamapálaiyam bridges across the Suruliyár in Madura are resubmitted for early sanction under the circumstances stated by the Executive Engineer.

3. The chief items of excess in the revised estimates are fully explained by the Executive Engineer, and the necessity for high rates for works in the Cumbum valley has been admitted by former Superintending Engineers.

Trichinopoly,
13th October 1893.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, VI Circle.

Order—dated 31st October 1893, No. 2766 W., Public Works.

The revised estimates, amounting respectively to Rs. 40,600 and Rs. 42,800, for the construction of masonry bridges over the Suruliyár river at Virapandi and Uttamapálaiyam on the road from Periyakulam to Cumbum in the Madura district are sanctioned in supersession of the estimates of Rs. 31,900 and Rs. 36,840 sanctioned in G.O., No. 135 W., dated 16th January 1891.

2. In the current year's budget a sum of Rs. 8,827 has been provided for the first mentioned work and Rs. 5,905 for the second, these sums representing the unspent balances of the original estimates. The Superintending Engineer will apply later in the year for any additional allotment that may be required.

3. The sanction accorded in paragraph 1 has been registered as Provincial Nos. 103 W. and 104 W. of 1893–94 and classified as Communications, Original Works.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle,
with plans and estimates.
,, Examiner, Public Works Accounts.
,, Local and Municipal Department.
Editors' Table.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 31st.

Recd. *Encl.*

G.O., 31st Oct. 1893, No. 2766 W.

OCTOBER.

Bridges

Revised estimates of Rs. 40,600 and Rs. 42,800 respectively for the construction of masonry — over the Suruliyár river at Virapandi and Uttamapálaiyam on the road from Periyakulam to Cumbum in Madura district, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper:—

Proceedings of the Board of Revenue (Land Revenue), dated 11th October 1893, Mis. No. 5808.

Read—the following letter from H. A. STUART, Esq., Collector and District Magistrate, North Arcot, to the Secretary to the Commissioners of Land Revenue, dated Ranipet, 7th October 1893, Ref. on No. 7224-Gl. Eng.

In G.O., dated 15th May 1893, No. 1305 W., communicated with Board's Proceedings, dated 14th June 1893, No. 3553, the Government has sanctioned the extension of the record room of the taluk cutcherry at Arcot by 12 feet on the south so as to allow of the erection of two more record stands. The Sub-Collector now states, however, that the proposed extension does not meet all the requirements and requests that the room may be extended by 25 feet at least. He reports that there are more than 110 dufters of records besides pattas and kachayets for sale which are now, for want of space in the record room, preserved in the sub-jail lumber room. In addition to these there are the Sub-Magistrate's records, which, as forming part of taluk records, should also be lodged in the same record room. The Sub-Collector adds that, when he made the first proposal, he overlooked, by mistake, these important considerations. I have the honour, therefore, to request that the Board will be pleased to obtain the sanction of Government for extending the record room by 25 feet instead of by 12 feet as originally proposed.

Resolution,—dated 11th October 1893, Mis. No. 5808.

Submitted for the sanction of Government.

(A true Copy and Extract.)

(Signed) W. S. MEYER,
Acting Secretary.

Mis. No. 3891, Revenue.

Transferred to the Public Works Department.

Ootacamund, (Signed) R. C. C. CARR,
21st October 1893. Under Secy. to Govt.

Order—dated 31st October 1893, No. 2771 W., Public Works.

Communicated, in continuation of G.O., No. 1305 W., dated 15th May 1893, to the Superintending Engineer, IV Circle, who will prepare a plan and estimate accordingly.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 31*st*.

Recd. *Encl.*

G.O., 31st Oct. 1893, No. 2771 W.

OCTOBER.

Record room of the Taluk Cutcherry at Arcot

The Superintending Engineer, IV Circle, requested to prepare an estimate for extending the — by 25 feet instead of by 12 feet as directed in G.O., No. 1305 W., dated 15th May 1893.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—again the following paper :—

G.O., dated 28th August 1893, No. 2194 W., Public Works.

Read—also the following paper :—

From C. VINCENT, Esq., Under Secretary to the Government of India, Public Works Department (Civil Works—Buildings), to the Secretary to the Government of Madras, Public Works Department, dated Simla, the 11th October 1893, No. 322 B.

I am directed to acknowledge the receipt of your letter No. 2195 W., dated the 28th August 1893, and, under the circumstances therein explained, to communicate the sanction of the Government of India to the construction of a residence at Bezwada for the Head Assistant Collector at that place at a cost of Rs. 10,600 subject to the conditions in Standing Order No. 107, dated 9th January 1893, to paragraph 17, chapter XI, volume I of the 6th edition of the Public Works Department Code being enforced. As regards the rent to be charged, I am to point out that the calculation under paragraph 3 of your letter under reply is not correct and that the rent works out to Rs. 77 per mensem instead of Rs. 71-8-4 as shown in the margin. As the salary of the Head Assistant Collector is Rs. 768-5-4 per mensem, he should be charged 10 per cent. on that amount, as rent for the residence in question under rule II of paragraph 28, chapter XI, volume I of the Public Works Department Code.

	RS.
Capital cost	12,710
(a) Interest at 4 per cent.	508
(b) Repairs at 3 „	381
(c) Establishment at 10 per cent. on (b).	38
	927
	12
= Rs. 77 per mensem.	

Order—dated 31st October 1893, No. 2774 W., Public Works.

The estimate, amounting to Rs. 10,600, for constructing a residence for the Head Assistant Collector at Bezwada, is sanctioned for early execution.

2. The current year's grant for the work is Rs. 5,000, and if necessary a further allotment may be applied for later in the year.

3. The condition subject to which the construction of the building has been sanctioned by the Government of India is that the present and future incumbents of the office of Head Assistant Collector, Bezwada, shall be required to live in the house and to pay rent for it calculated under the existing rules.

4. The Government of India will be addressed with respect to the method adopted by it in calculating rent.

5. With reference to the remarks in the Superintending Engineer's letter No. 981 K.S., dated 13th July 1893, recorded in G.O., No. 2194 W., dated 28th August 1893, regarding the value of the site of the proposed residence, it is observed that, as Government land was given in exchange for the site, the latter must be treated as Government land and its value must be assessed in accordance with clause (a), rule I paragraph 28, chapter XI, Public Works Code, *i.e.*, its value for the purpose of calculating rent must be fixed with reference to the average cost of similar land in the vicinity. There is no question of actual payment for the site, as the amount fixed is merely an estimate of value necessary for the purpose of arriving at the capital cost of the proposed building and of assessing its rent.

6. The sanction accorded in paragraph 1 has been registered as Provincial No. 105 W. of 1893–94 and classified as Civil Buildings, Original Works.

[Here enter No. 2775 W., dated 31st October 1893.]

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, II Circle, with estimate and plans.
" Examiner, Public Works Accounts, with copy of G.O., No. 2194 W., dated 28th August 1893.
" Revenue Department.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 31st.

Recd. *Encl.*

G.O., 31st Oct. 1893, No. 2774 W.

OCTOBER.

Residence

Estimate of Rs. 10,600 for constructing a — for the Head Assistant Collector at Bezwada, sanctioned for early execution, and the Government of India ordered to be addressed with respect to the method adopted bp it in calculating rent.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Letter—from

Colonel J. PENNYCUICK, R.E.,

Secretary to the Government of Madras,
Public Works Department,

To

The SECRETARY to the GOVERNMENT of INDIA,
Public Works Department.

Sir,

In acknowledging the receipt of your letter No. 322 B., dated 11th October 1893, I am directed to request that the Government of India may be moved to reconsider the method of calculating the rent of buildings proposed to be constructed for the occupation of Government officials.

2. In this Presidency it has been the practice to calculate the percentage for repairs on the estimated cost of construction, but in your letter under reply the 3 per cent. is taken on the total capital cost, an amount which includes provision for establishment and tools and plant and the cost of site—items which obviously do not require repairs. The inequitableness of this arrangement is further enhanced when 10 per cent. for establishment and tools is levied on the 3 per cent. for repairs, thus recalculating establishment and tools on a figure which already includes a percentage on the provision for establishment and tools and the cost of site.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

Fort St. George,
31st October 1893.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October 31*st*.

Recd. *Encl.*

31st October 1893, No. 2775-W.

OCTOBER.

Rent

Requesting a reconsideration of the method adopted by the Government of India in calculating the — of buildings proposed to be constructed for the occupation of Government officials.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

TABULAR STATEMENT OF MISCELLANEOUS PROCEEDINGS AND MATTERS OF ROUTINE,

BUILDINGS AND ROADS,

FOR THE MONTH OF OCTOBER 1893.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Mr. G. Read, Accountant.—Orders relating to the grant of leave without allowances to — for the period of his absence from duty without leave.	2nd Oct. 1893, No. 2507 W.	......
Upper Subordinate Establishment.—The Chief Engineer authorised to select men from the Engineer student and Engineer Subordinate classes now undergoing practical training to fill vacancies in the — urgently required.	2nd do. do. No. 2508 W.	......
Accident.—Report of an — by landship on the Calicut-Vayitri road on 12th September 1893, recorded.	4th do. do. No. 2512 W.	......
Statement of unauthorised appropriations.—Orders on the —, Buildings and Roads Branch, made during August 1893.	4th do. do No. 2514 W.	6th Sept. 1893, Nos. 2291–92 W.
Above forwarded to the Accountant-General, Public Works Department.	4th do. do. No. 2515 W.	......
Local Fund report.—Proceedings, Local and Municipal Department, reviewing the Tinnevelly District Board report for 1892–93, communicated to the Superintending Engineer, VI Circle.	4th do. do. No. 2516 W.	......
Names of certain places.—Proceedings, Revenue Department, directing publication in the *Fort St. George Gazette* of notification making certain corrections in List II regarding the spelling of the — in Madras Presidency, communicated to the Superintending Engineer, I Circle.	4th do. do. No. 2517 W.	12th April 1893, No. 990 W. 21st July 1893, No. 1887 W. 8th Aug. 1893, No. 2038 W.
Central Jail at Cannanore.—The Examiner authorised to admit the excess outlay incurred in the estimate for constructing a circular cook-room in the —.	4th do. do. No. 2518 W.	......
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of May 1893, IV Circle.	4th do. do. No. 2519 W.	9th March 1893, No. 648 W. 6th April 1893, No. 899 W. 17th June 1893, No. 1612 W. 31st Aug. 1893, No. 2224 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
North groyne at Cocanada.—Letter from the Superintending Engineer, I Circle, stating that the estimate submitted for the extension of the — will require some alteration before it is sanctioned by Government, communicated to the Marine Department.	4th Oct. 1893, No. 2520 W.	25th April 1892, No. 1306 W. 28th April 1892, No. 2263 C. 16th Aug. 1892, No. 2262 C. 31st Aug. 1892, No. 2432 W. 14th Sept. 1892, No. 391 D. 24th Nov. 1892, No. 4937 C. 20th Feb. 1893, No. 774 C. 3rd March 1893, No. 989 C. 9th March 1893, No. 1128 C. 8th Sept. 1893, No. 2313 W.
Minimum Leave Allowance.—Proceedings, Financial Department, communicating decision of the Government of India regarding the minimum rate of absentee allowance in the case of an officer on privilege leave who proceeds out of India and whose leave is commuted to leave on medical certificate, communicated to officers of the department.	4th do. do. No. 2521 W.	11th July 1893, No. 1809 W. 21st July 1893, No. 1883 W. 16th Aug 1893, No. 2103 W.
C. Manavala Naidu, Accountant.—The grant of presidency allowance to — from the date he took charge of the accounts of the Buckingham canal division, sanctioned.	4th do. do. No. 2522 W.	....
Funds.—Passing orders on application for additional — for the III Circle.	4th do. do. No. 2524 W.	18th May 1893, No. 1332 W.
Boat jetty at Cannanore.—Rs. 100 provided by the Financial Department for repairs to the —, replaced at the disposal of that department, the work being completed.	4th do. do. No. 2525 W.	26th Sept. 1892, No. 2671 W. 11th Sept. 1893, No. 3062 C.
Steam launch for Narsapur ferry.—Excess outlay incurred for constructing a — in Gódávari Western division, sanctioned.	4th do. do. No. 2526 W.	13th Dec. 1890, No. 3309 W. 26th June 1893, No. 1669 W. 6th Sept. 1893, No. 2297 W.
Statement of payments made in England.—The — on account of stores and freight and of invoices despatched to India during August 1893 under Madras Provincial and Local Funds, Public Works, communicated to officers concerned.	4th do. do. No. 2527 W.	6th Sept. 1893, No. 2527 W.
Stores.—The local purchase of zinc white powder required for the Head Assistant Collector's cutcherry at Gudur in Nellore district, sanctioned.	4th do. do. No. 2528 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W. 27th July 1888, No. 3040 W. 20th July 1893, No. 1880 W. 7th March 1893, No. 609 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Rajahmundry ferry steamer "Dorothy."—The Examiner authorised to admit the excess outlay incurred on the sanctioned estimate for repairing the —.	4th Oct. 1893, No 2529 W.	29th Oct. 1891, No. 2892 W. 6th March 1893, No 586 W. 28th March 1893, No. 843 W.
Sub-Registrars' offices.—Rs. 1,000 withdrawn from the grant for each of the — at Udamalpet and Dhárápuram and credited to the reserve.	4th do. do. No. 2530 W.	24th Aug. 1893, No. 2178 W.
Stores.—The local purchase of round mild steel for the Presidency Public Works Workshops, sanctioned.	4th do. do. No. 2531 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W.
Government buildings in Salem division.—Certain information supplied by the Executive Engineer regarding the value of sites of certain — used as residences; communicated to the Examiner, Public Works Accounts.	4th do. do. No. 2532 W.	3rd Sept. 1892, No. 2455 W. 12th May 1893, No. 1287 W.
Store room for mineral oil for the new Madras light.—The Consulting Architect directed to submit the required plan and estimate for the construction of a — on a site to be approved by the Honorable the Judges of the High Court and Presidency Port Officer.	4th do. do. No. 2533 W.	......
A. Vedanta Charri, Delta Superintendent, Gudiváda division.—The ordinary travelling allowance of an overseer granted to — while conducting the duties of an overseer on privilege leave.	4th do. do. No. 2534 W.	......
V. Raghava Charriar, late clerk, Office of Examiner, Public Works Accounts.—Declining to interfere on behalf of — praying to be permitted to rejoin his appointment or granted leave for another year.	4th do. do. No. 2535 W.	6th Sept. 1893, No. 3023 W.
Unanswered references.—Letter from the Superintending Engineer, III Circle. explaining the cause of omissions, &c., noticed in the list of — of his circle, for half-year ending 31st March 1893, recorded.	4th do. do. No. 2536 W.	10th Aug. 1892, No. 142 D. 15th March 1893, No. 715 W. 13th Sept. 1893, No. 2365 W. 23rd Sept. 1893, No. 2448 W.
Medicines.—The Examiner authorised to admit the charges for — noted in the supplemental contingent bills for March 1893 of the Kurnool and Kistna Eastern divisions.	4th do. do. No. 2537 W.	......
Pension.—Proceedings, Pension Department, granting an invalid — to P. Chengalroyen, late lascar, North Arcot division, Public Works Department, of Rs. 2-8-0 per mensem, recorded.	6th do. do. No. 2540 W.	.....
Last-pay certificates.—A blank list of officers who have proceeded to England with — for quarter ending 30th September 1893, ordered to be forwarded to the Home Government.	6th do. do. No. 2542 W.	16th April 1893, Nos. 894–95 W. 10th July 1893, Nos. 1798–99 W.
Forwarded	6th do. do. No. 2543 W.	.. ...

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Administration report.—Letter from the Government of the Punjab forwarding 2 copies of the — of the General Branch, Public Works Department, of that Province for 1892–93, recorded.	7th Oct. 1893, No. 2547 W.	......
Stores.—Proposals of the Consulting Architect to purchase piping materials for the water-supply of Government House, Guindy, from the local market in case of not obtaining them of local manufacture, approved.	10th do. do. No. 2549 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W. 27th Sept. 1888, No. 3040 W. 4th Sept. 1893, No. 2265 W.
Stores.—The local purchase of certain articles of English — for the Coimbatore division, sanctioned.	10th do. do. No. 2550 W.	......
Stamp and Stationery office buildings.—Proceedings, Revenue Department, considering that the — should be converted into offices for the Inspector-General of Registration, the Registrar of Madras and the Sub-Registrar of Sowcarpet, communicated to the Consulting Architect.	10th do. do. No. 2551 W.	8th Aug. 1893, No. 670 D.
Stores.—The local purchase of certain English — required for use in the Dowlaishweram workshops, sanctioned.	10th do. do. No. 2552 W.	30th Sept. 1892, No. 816 I. 28th July 1893, No. 1962 W. 23rd Aug. 1893, No. 2171 W. 17th April 1893, No. 1085 W.
Advances of travelling allowance.—Proceedings, Financial Department, communicating letter from the Government of India accepting the interpretation of this Government of article 137 (*d*) of the Civil Account Code when read with article 71 as regards — to officers proceeding on tour, recorded with remark.	10th do. do. No. 2553 W.	......
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of May 1893, Consulting Architect's division.	10th do. do. No. 2554 W.	8th Aug. 1893, No. 2034 W. 25th Sept. 1893, No. 2462 W.
Stores.—Proposals of the Executive Engineer, Kistna Eastern division, regarding the exchange of certain iron in his division with those at Messrs. Massey and Co., approved.	10th do. do. No. 2555 W.	......
Establishment.—The entertainment of certain — for the newly formed Pattukkóttai sub-division in Negapatam division, sanctioned.	10th do. do. No. 2556 W.	16th Feb. 1888, No. 537 W. 25th Aug. 1893, No. 2191 W.
Major W. L. C. Baddeley, R.E., Superintending Engineer.—Permission accorded to — coming to Madras to inspect the screw-pile materials offered for sale by the Madras Railway Company and which may be suitable for the new pier at Tuticorin.	10th do. do. No. 2557 W.	......

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
P. Sadasiva Row.—Proceedings, Revenue Department, ordering the publication in the Fort St. George and all District Gazettes of a notification declaring —, plantation Supervisor, Forest department, South Arcot district, ineligible for further employment in the public service, communicated to officers of the department.	10th Oct. 1893, No. 2558 W.	......
Appeal suit.—The Government Pleader, Madras, authorised to undertake the defence of the — instituted at the High Court by the mirasidars of Pulienjairy in regard to work executed by this department to Pulienjairy tank, Tanjore.	10th do. do. No. 2560 W.	13th April 1891, No. 1029 W. 21st April 1891, No. 2194 W. 23rd April 1892, No. 1294 W. 6th May 1892, No. 1421 W. 20th Dec. 1892, No. 3484 W.
Memorials.—The *nil* list of — addressed to the Secretary of State and withheld during the qaurter ending 30th September 1893, forwarded to the Government of India.	10th do. do. No. 2563 W.	10th July 1893, No. 1797 W.
Memorials.—The *nil* list of — addressed to the Government of India and withheld during the quarter ending 30th September 1893, forwarded to that Government.	10th do. do. No. 2564 W.	10th July 1893, No. 1800 W.
Latrine.—Proceedings, Revenue Department, observing that the estimate for a — for the taluk cutcherry at Ellore was transferred to the Public Works Department by endorsement, dated 21st July 1893, recorded.	10th do. do. No. 2565 W.	11th Nov. 1891, No. 3023 W. 22nd Feb. 1893, No. 461 W. 4th Sept. 1893, No. 793 D. 19th Sept. 1893, No. 2394 W.
Cheques.—Proceedings, Financial Department, directing attention of heads of departments to the rule that — for amounts due by Government shall be drawn only in the name of the individual creditor or of a known bank or agency firm named by him and requiring the verification of each cheque before endorsement, communicated to officers of the department.	10th do. do. No. 2566 W.	9th July 1881, No. 1702 W.
Local Fund report.—Proceedings, Local and Municipal Department, reviewing the Nilgiri — for 1892–93, communicated to the Superintending Engineer, IV Circle.	11th do. do. No. 2567 W.	......
Local Fund report.—Proceedings, Local and Municipal Department, reviewing the Salem — for 1892–93, communicated to the Superintending Engineer, IV Circle.	11th do. do. No. 2568 W.	......
Local Fund report.—Proceedings, Local and Municipal Department, reviewing the Cuddapah — for 1892–93, communicated to the Superintending Engineer, III Circle.	11th do. do. No. 2569 W.	......
Water-supply scheme.—Proceedings, Local and Municipal Department, approving of proposals of the Sanitary Engineer in connection with the Trichinopoly —, recorded.	11th do. do. No. 2570 W.	19th June 1891, No. 1409 R. 17th Dec. 1891, No. 3018 R.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 9th March 1892, No. 624 R. 31st May 1892, No. 1653 W. 27th June 1892, No. 1868 W. 15th Dec. 1892, No. 3482 W. 14th Jan. 1893, No. 66 W. 5th Aug. 1893, No. 2804 W. 1st Sept. 1893, No. 2995 C.
Exchange compensation allowance.—Proceedings, Financial Department, communicating resolution of the Government of India making certain alterations in the rules regarding the grant of —, communicated to officers of the department.	11th Oct. 1893, No. 2571 W.	13th Sept. 1893, No. 2353 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of May 1893, I Circle.	11th do. do. No. 2572 W.	14th April 1893, No. 1063 W. 27th June 1892, No. 2439 C. 3rd July 1893, No. 2485 C. 8th July 1893, No. 1778 W. 15th July 1893, No. 2623 C. 25th July 1893, No. 2711 C. 7th Aug. 1893, No. 2812 C. 19th Aug. 1893, No. 2142 W.
Dam across Valavanur, Negapatam division.—Funds surrendered from the grant for constructing a —, resumed and replaced at the disposal of the Government of India.	11th do. do. No. 2574 W.	11th April 1893, No. 942 W. 11th April 1893, No. 943 W.
The Government of India addressed ...	11th do. do. No. 2575 W.	......
Rain-gauge pillars in Gódávari district.—Funds allotted for the construction of —.	11th do. do. No. 2576 W.	......
Marine Villa at Cocanada.—The Examiner authorised to admit the excess outlay incurred on the estimate for repairs to the —.	11th do. do. No. 2577 W.	1st Sept. 1891, No. 2328 W. 7th Sept. 1891, No. 2390 W. 10th Sept. 1891, No. 2427 W. 3rd March 1893, No. 981 C. 9th June 1893, No. 2295 C.
Sholagiri estate, Salem.—The execution by this department of certain work proposed to be carried out in the —, sanctioned.	11th do. do. No. 2578 W.	......

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Sub-Registrar's office at Erode.—Funds surrendered from the grant for constructing a —, resumed and credited to the reserve.	11th Oct. 1893, No. 2579 W.	2nd Sept. 1893, No. 2262 W.
Lighthouse at Coondapoor.—The allotment of Rs. 10 sanctioned for the preliminary examination of the site for the —, replaced at the disposal of the Financial Department.	11th do. do. No. 2580 W.	4th July 1893, No. 516 D. 19th June 1893, No. 1627 W. 12th Aug. 1893, No. 2068 W 25th Aug. 1893, No. 2188 W.
Training College at Rajahmundry.—The Superintending Engineer, I Circle, directed to submit a plan and estimate for the construction of a —.	11th do. do. No. 2581 W.	......
Funds.—Transfer of — from the taluk office at Madakasira to that at Hindupur, sanctioned.	11th do. do. No. 2582 W.	......
Indents.—Despatch from the Secretary of State sanctioning compliance with the — for piping, &c., for Periyár project, communicated to officers concerned.	11th do. do. No. 2584 W.	19th May 1893, No. 1355 W. 19th May 1893, No. 1356 W.
Sub-Registry office at Cannanore.—The Superintending Engineer, IV Circle, directed to submit an estimate for the construction of a new —.	11th do. do. No. 2585 W.	......
Indent.—Certain particulars in connection with the —, dated 10th May 1893, on the Director-General of Stores, India office, furnished to that officer.	11th do. do. No. 2586 W.	1st Aug. 1893, No. 2768 C.
Sub-Registrar's office at Shiyáli, Tanjore district.—The Superintending Engineer, V Circle, requested to submit an estimate for the construction of a — and G.O., No. 1216 W., dated 5th May 1893, ordered to be cancelled.	11th do. do. No. 2587 W.	5th May 1893, No. 1216 W.
Mr. A. B. Todd, Executive Engineer.—Presidency allowance to —, sanctioned.	11th do. do. No. 2588 W.	......
Land.—The notification for the acquisition of — required for the construction of the Executive Engineer's office at Madura, ordered to be published in the *Fort St. George Gazette.*	11th do. do. No. 2589 W.	23rd Feb. 1890, No 472 W. 8th Sept. 1893, No. 2307 W. 22nd Sept. 1893, No. 3157 C.
Native jail at Ootacamund.—Proceedings, Ecclesiastical Department, informing the Right Reverend the Bishop of Madras that Government is unable to place the old — at the disposal of the sisters of the church there for a school and communicating a copy of reply from the Public Works Department on the subject, communicated to the Superintending Engineer, IV Circle.	13th do. do. No. 2590 W.	3rd Nov. 1887, No. 2910 W. 17th May 1888, No. 1450 W. 28th March 1891, No. 888 W. 19th June 1891, No. 1655 W. 18th Sept. 1893, No. 867 D.
Assistant sub-divisional clerks.—Application for the entertainment of three — for the Sangam sub-division, recorded with reference to G.O., No. 2439 W., dated 22nd September 1893.	13th do. do. No. 2591 W.	......

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Stores.—Letter from the Government of the Central Provinces, Public Works Department, forwarding two copies of the list of surplus — available for transfer on 31st March 1893 in that province, communicated to the Superintending Engineer, V Circle.	13th Oct. 1893, No. 2592 W.	......
Water-power of the Periyár.—Paragraph 4 of despatch from the Secretary of State stating that Colonel Pennycuick has been placed on duty for one month of his furlough in consideration of his work in connection with the Committee's report on the utilisation of the —, communicated to the Examiner, Public Works Accounts.	13th do. do. No. 2593 W.	......
C. Cunniah Naidu, Clerk, Revenue Secretariat.—Declining to interfere with the petition from — regarding the recovery of possession of a Government building at Attantangal formerly occupied by him.	13th do. do. No. 2594 W.	25th June 1885, No. 1485 D. 30th July 1885, No. 1778 W. 22nd Oct. 1885, No. 2481 W. 10th Oct. 1887, No. 2650 W. 26th Oct. 1887, No. 2888 W. 16th May 1893, No. 2065 C.
Funds.—Explanation submitted by the Executive Engineer, West Coast division, regarding surrenders of — under Provincial and Imperial works in that division, recorded with remarks.	13th do do. No. 2595 W.	31st Jan. 1893, No. 204 W.
Telegraph office building at Bellary.—Intimation from the Director-General of Telegraphs allotting funds for constructing a stone drain in the —, communicated to the Superintending Engineer, III Circle, and the Examiner, Public Works Accounts.	13th do. do. No. 2596 W.	......
New Madras Lighthouse.—Proceedings, Financial Department, authorising the Accountant-General to place Rs. 105 at the disposal of the Public Works Department for providing a call-bell for the —, communicated to the Consulting Architect.	13th do. do. No. 2597 W.	6th Oct. 1893, No. 994 D.
Gódávari left embankment.—Proceedings, Local and Municipal Department, requesting the Accountant-General to place Rs. 1,800 at the disposal of the Public Works Department for gravelling the first mile of the — from Rajahmundry to Purushottapatnam, communicated to the Superintending Engineer, I Circle, and the Examiner, Public Works Accounts.	13th do. do. No. 2598 W.	26th June 1893, No. 1669 W. 28th July 1893, No. 1957 W. 11th Aug. 1893, No. 2860 C. 22nd Aug. 1893, No. 2158 W. 23rd Aug. 1893, No. 2169 W. 31st Aug. 1893, No. 2231 W. 7th Sept. 1893, No. 2302 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Cemetery at Kodaikanal.—A copy of G.O., No. 2284 W., dated 5th September 1893, requesting the Superintending Engineer, VI Circle, to submit an estimate for enclosing and laying out the new — furnished to the Board of Revenue, through the Revenue Department, and the Superintending Engineer directed to expedite the submission of the estimate called for in that Government order.	13th Oct. 1893, No. 2599 W.	17th Oct. 1891, No. 2746 W. 11th Dec. 1891, No. 3310 W. 20th Feb. 1892, No. 572 W. 5th Sept. 1893, No. 2284 W.
Carts.—The Government of India informed that there is no objection to the proposed insertion in the public works contracts for — of a stipulation similar to that existing in the case of contracts entered into by the Commissariat Department for hired carts with a view to the Army transport carts being utilised whenever available.	13th do. do. No. 2600 W.	11th Feb. 1892, No. 429 W. 13th Sept. 1892, No. 2550 W. 5th Dec. 1892, No. 3330 W. 26th Oct. 1893, No. 3192 C.
Minimum absentee allowance.—Proceedings, Financial Department, on resolution of the Government of India regarding the — of an officer granted furlough under Indian service rules on account of ill-heath, communicated to officers of the department.	13th do. do. No. 2605 W.	11th July 1893, No. 1809 W. 21st July 1893, No. 1883 W. 16th Aug. 1893, No. 2103 W. 4th Oct. 1893, No. 2521 W.
Exchange compensation allowance.—Proceedings, Financial Department, communicating circular from the Government of India requesting that the provisions of part II of Act X of 1865 may be taken as a guide in deciding whether any European or Eurasian officer is or is not domiciled in India for the purposes of the rules regarding —, communicated to officers of the department.	13th do. do. No. 2609 W.	13th Sept. 1893, No. 2353 W.
Administration report of the Public Works Department.—Three copies of the — of the General, Buildings and Roads Branch, Madras, for 1892–93, forwarded to the Government of India.	13th do. do. No 2610 W.	......
Vizagapatam Agency.—Proceedings, Judicial Department, reviewing the report on the administration of the — for 1892–93, communicated to the Superintending Engineer, I Circle.	13th do. do. No. 2611 W.	......
Return of stores.—A bi-monthly — under provision by the Director-General of Stores for India up to 31st July 1893, Madras Public Works, communicated to officers concerned and a copy forwarded to the Government of India.	13th do. do. No. 2612 W.	17th July 1893, Nos. 1856–57 W.
Forwarded	13th do. do. No. 2613 W.	......
Expenditure.—Note by the Chief Engineer reviewing the — in 1892–93 by the operations of the Public Works Department as compared with the budget and final grants for that year, recorded.	13th do. do. No. 2614 W.	1st Nov. 1889, Nos. 3082–83 W. 10th Aug. 1893, No. 2850 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Tank restoration scheme investigation establishment.—Proceedings, Educational Department, sanctioning the exemption from examination rules of certain unpassed members of the — so long as they continue to hold their present posts, communicated to the Chief Engineer for Irrigation.	13th Oct. 1893, No. 2621 W.	17th March 1893, No. 237 I. 2nd June 1893, No. 1478 W. 12th Sept. 1893, No. 3071 C.
Badges.—Proceedings, Judicial Department, requesting the supply of six — for the use of the sub-jail warder peons in the Special Assistant Agent's office at Vizagapatam, communicated to the Superintending Engineer, V Circle, with instructions.	13th do. do. No. 2622 W.	......
Rent.—The claim of Rs. 9 due from Abdul Karim for the — of a piece of land near Barber's bridge belonging to the junction canal for May 1893 waived for reasons stated.	13th do. do. No. 2623 W.	6th May 1893, No. 1244 W. 10th Aug. 1893, No. 2051 W.
Surveyor.—The transit pay and allowance to a — whom it is proposed to send from No. 4 or 5 Party in Tanjore district to the Chingleput division for taking levels of tanks for which estimates have been sanctioned and sent for execution by the tank restoration scheme, sanctioned.	13th do. do. No. 2624 W.	26th Sept. 1893, No. 3194 C.
Mr. A. B. Todd, Executive Engineer.—Memorial from — praying for permission to retire from the service in the event of a certain number of Engineers being permitted to retire on enhanced pensions, ordered to be forwarded to the Government of India.	13th do. do. No. 2625 W.	......
Forwarded	13th do. do. No. 2626 W.	......
Stores.—The local purchase of certain English — required for No. I Periyár division, sanctioned.	13th do. do. No. 2627 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W. 20th July 1893, No. 1880 W.
District Munsif's Court buildings at Berhampore.—Proceedings, Judicial Department, approving of the recommendation to allow the Berhampore Municipality to utilise as a school a portion of the — on certain conditions, communicated to the Superintending Engineer, I Circle.	13th do. do. No. 2628 W.	......
Suit.—Letter from the Superintending Engineer, I Circle, stating that the appeal — brought by Kudimercherla Subbarayudu and Company of Cocanada in connection with the water-supply to their fields has been dismissed with costs, recorded.	13th do. do. No. 2629 W.	5th Oct. 1888, No. 635 I. 8th Sept. 1888, No. 638 D. 26th Sept. 1892, No. 444 D. 13th April 1893, No. 1028 W. 10th May 1893, No. 1270 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Honorary Commissioned and Non-Commissioned Officers.—Circular from the Government of India forwarding for information extract from a despatch from the Secretary of State sanctioning the general application to — of the principle that compulsory retirement on superannuation shall confer a title to the pension that would be admissible on invaliding, recorded.	14th Oct. 1893, No. 2631 W.	18th Sept. 1892, No. 2390 W.
Bills.—The General Superintendent, Public Works Stores, directed to submit revised, — for certain articles actually supplied to the Board of Revenue, and the instructions issued by the Superintending Engineer, V Circle, regarding the alteration of the present system of preparing bills in the workshops noted.	16th do. do. No. 2632 W.	16th Feb. 1891, No. 431 W. 3rd Aug. 1891, No. 2092 W. 29th Oct. 1891, No. 2892 W. 16th May 1892, No. 1498 W. 5th April 1892, No. 1521 C. 21st June 1893, No. 446 D. 21st Aug. 1893, No. 717 D. 22nd Aug. 1893, No. 2159 W.
Storekeepers in West Coast division.—Sanction accorded to the Examiner passing the pay of two — from the 8th to 11th April 1893, the period engaged in giving and taking over charge of stores in the division.	16th do. do. No. 2633 W.	......
Suit.—The payment of Rs. 377-2-1 claimed by the Government Pleader in connection with the — brought by Contractor Yerala Gudda Naidu for work done in No. II Periyár division, sanctioned, and copies of the judgment, &c., promised by the Superintending Engineer, VI Circle, awaited.	16th do. do. No. 2634 W.	23rd June 1891, No. 429 D. 18th Sept. 1891, No. 2507 W. 13th April 1892, No. 1229 W. 7th Oct. 1892, No. 2797 W. 4th Nov. 1892, No. 4602 C. 11th Jan. 1893, No. 45 W.
Funds.—Passing orders on certain modification of — in Negapatam division.	16th do. do. No. 2635 W.	20th Aug. 1892, No. 2318 W.
Funds.—Certain transfer of — in the Consulting Architect's division, sanctioned.	16th do. do. No. 2636 W.	19th Sept. 1893, No. 2405 W. 28th Sept. 1893, No. 3221 C.
Tools.—The transfer of certain surplus — of the Buckingham canal division to the Public Works Stores, sanctioned.	16th do. do. No. 2637 W.	22nd Nov. 1892, No. 4894 C. 27th March 1892, No. 829 W.
Madras Harbour Works.—The Director-General of Stores requested to supply four of the balance of eight wheels and an additional steel wire rope for the titan crane of the —.	16th do. do. No. 2639 W.	......
Administration report.—Letter from the Secretary to the Chief Commissioner, Public Works Department, Assam, forwarding a copy of the — of the Public Works Department of that province for 1892–93, recorded.	16th do. do. No. 2641 W.	......

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
List of works proposed to be carried out by the Public Works Department during 1894–95.—A nil — submitted by the President, District Board, Tinnevelly, recorded.	16th Oct. 1893, No. 2644 W.	28th Feb. 1893, No. 525 W.
Water-supply at Dindigul.—The General Superintendent, Public Works Stores, authorised to issue on loan two rock hand drills required for the tunnel work at the —.	16th do. do. No. 2647 W.	.....
Spoil banks along Ryves' canal, Bezwada.—Funds appropriated for removing the —.	16th do. do. No. 2649 W.	12th Aug. 1892, No. 685 I. 7th April 1893, No. 304 I. 15th April 1893, No. 344 I. 22nd June 1893, No. 2413 C. 16th Aug. 1893, No. 2105 W. 25th Sept. 1893, No. 2485 W.
Council Chamber, Fort St. George.—Proceedings, Legislative Department, ordering the immediate execution of certain alterations in connection with the —, communicated to the Consulting Architect with instructions.	16th do. do. No. 2650 W.	2nd Oct. 1893, No. 957 D. 11th Sept. 1893, No. 3060 C.
Lieut.-Colonel Smart, R.E.—Further appeal from — regarding his election of the old scale of salary, ordered to be forwarded to the Government of India.	18th do. do No. 2651 W.	15th Sept. 1876, No. 1633 W. 19th June 1893, No. 1633 W.
Forwarded	18th do. do. No. 2652 W.	......
Hope Island Light-house.—Proceedings, Marine Department, recording letter from the Presidency Port Officer stating that it is not necessary to adopt the Superintending Engineer's proposal in regard to protecting the light apparatus at — from the invasion of insects, communicated to the Superintending Engineer, I Circle.	18th do. do. No. 2653 W.	25th Aug. 1893, No. 2190 W. 20th Sept. 1893, No. 2420 W.
Pension.—Proceedings, Pension Department, recording, with remarks, a letter from the Collector of Salem, submitting explanation of the delay in the submission of certain pension applications, communicated to officers of the department.	18th do. do. No. 2654 W.	.....
Groynes along the foreshore at Cochin.—Proceedings, Financial Department, requesting the Accountant-General to place Rs. 498 at the disposal of the Public Works Department on account of repairs to the —, communicated to the Superintending Engineer, IV Circle, and the Examiner, Public Works Accounts.	18th do. do. No. 2655 W.	.....
Local Fund Report—Proceedings, Local and Municipal Department, reviewing the Anantapur District Board report for 1892–93, communicated to the Superintending Engineer, III Circle.	18th do. do. No. 2656 W.	......

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Volunteers.—Proceedings, Military Department, recording, with remarks, correspondence regarding the grant of leave without loss of pay to — employed in certain public establishments in the Presidency who may attend camps of exercise, &c., communicated to the Superintending Engineer, V Circle.	18th Oct. 1893, No. 2657 W.	......
Funds.—Sanctioning certain modification of — in the Consulting Architect division.	18th do. do. No. 2658 W.	......
Messrs. J. W. Martin and A. A. G. Malet.—Passing orders regarding increased powers of sanction to—.	18th do. do. No. 2659 W.	2nd March 1888, No. 810 W. 9th Oct. 1888, No. 3334 W. 3rd Nov. 1888, No. 2498 W. 11th Nov. 1889, No. 3198 W. 24th April 1890, No. 1222 W. 16th May 1890, No. 1367 W. 7th April 1890, No. 974 W. 16th April 1891, No. 1054 W.
Executive Engineer's residence at Kurnool.—Office-note from the Examiner, Public Works Accounts, on the subject of rent for the —, communicated to the Executive Engineer with remarks.	18th do do. No. 2660 W.	26th March 1888, No. 1879 W. 22nd Sept. 1888, No. 2981 W. 6th March 1891, No. 648 W. 19th Aug. 1892, No. 2308 W. 8th Nov. 1892, No. 4653 C. 20th Oct. 1892, No. 4494 C. 28th Nov. 1892, No. 3256 W. 6th May 1893, No. 1972 C. 13th June 1893, No. 1568 C. 29th Aug. 1893, No. 2210 W. 8th Sept. 1893, No. 3035 C.
Six months' budget estimate for 1893–94.—Letter from the Government of India requesting that the — may be submitted a day or two before the 1st November 1893, communicated to the Chief Engineer for Irrigation.	18th do. do. No. 2664 W.	......
Watchman.—The employment of a — for the vacant Military buildings at Mangalore in South Canara district, sanctioned.	18th do. do. No. 2665 W.	28th March 1893, No. 840 W. 17th May 1893, No. 1328 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893 in Madras.	18th do. do. No. 2666 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Storekeeper, North Arcot division.—The — allowed to occupy the quarters provided for him in Vellore Fort on a rent of Re. 1 per mensem.	18th Oct. 1893, No. 2667 W.	23rd Sept. 1887, No. 2527 W. 22nd Sept. 1888 No. 2981 W. 15th Jan. 1889, No. 180 C. 29th Jan. 1889, Nos. 231–32 C. 8th March 1889, No. 686 W. 3rd April 1889, No. 1716 C. 17th April 1889, No. 1944 C. 16th April 1890, No. 1130 W. 7th June 1893, No. 329 D. 26th June 1893, No. 1673 W. 30th Aug. 1893, No. 2215 W.
Mahomed Secunder Saib.—The Examiner authorised to admit the debit to establishment without a voucher of the value of one measuring tape lost by —, late Overseer, Ganjám division.	18th do. do. No. 2668 W.	2nd Oct. 1893, No. 3250 C.
Local fund report.—Proceedings, Local and Municipal Department, reviewing the South Canara District Board report for 1892–93, communicated to the Superintending Engineer, IV Circle.	18th do. do. No. 2669 W.	......
St. Andrew's Church, Bangalore.—Rs. 450 appropriated from the reserve and placed at the disposal of the Chief Engineer, Madras Command, Military Works, on account of repairing and testing lightning conductors of —.	20th do. do. No. 2670 W.	......
Suit.—Letter from the Superintending Engineer, V Circle, stating that he has informed the Government Pleader to undertake the appeal — in connection with the Pulienjeri case, recorded.	20th do. do. No. 2671 W.	13th April 1891, No. 1029 W. 21st April 1891, No. 2194 W. 6th May 1892, No. 1421 W. 20th Dec. 1892, No. 3484 W.
Unanswered references.—Letter to the Under Secretary of State for India forwarding, in duplicate, a list of despatches received from the Secretary of State which remain unanswered for the quarter ending 30th September 1893.	20th do. do. No. 2672 W.	7th July 1893, No. 1766 W.
Unanswered references.—Statement of — from the Government of India in the Military Department remaining unanswered for the quarter ending 30th September 1893, forwarded to the Government of India.	20th do. do. No. 2673 W.	7th July 1893, No. 1767 W.
Sub-Overseer for the Kurnool canal division.—Explanation by the Superintending Engineer, III Circle, as regards the non-submission of the proposition statement for the current official year for a —, recorded.	20th do. do. No. 2375 W.	26th June 1893, No. 1672 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Native newspapers.—Report on — for fortnight ending 15th September 1893, recorded.	20th Oct. 1893, No. 2678 W.	......
Periyár project.—Letter from the Director-General of Stores stating that on Colonel Pennycuick's recommendation only 1,200 feet of iron piping will be supplied at present for the —, communicated to the Superintendent of Works, Periyár Project.	20th do. do. No. 2679 W.	30th Aug. 1893, No. 2217/A W.
Correspondence to the Government of India, Military Department.—Instructions from the Government of India regarding date up to which certain — will be received in Simla and Calcutta, respectively, recorded.	20th do. do. No. 2680 W.	......
Royal Engineer officers.—Proceedings, Military Department, communicating ruling of the Secretary of State that — who have elected for continuous service are eligible for District Command and Army staff appointments in India as Indian Service officers, recorded.	20th do. do. No. 2681 W.	......
Her Majesty's Penitentiary at Madras.—Regarding allotment of funds for additions and improvements to —.	20th do. do. No. 2682 W.	......
Native newspapers.—Reports on — for fortnight ending 30th September 1893, recorded.	23rd do. do. No. 2683 W.	......
Local fund report.—Proceedings, Local and Municipal Department, reviewing the Tanjore District Board Report for 1892–93, communicated to the Superintending Engineer, V Circle, and the Consulting Engineer for Railways.	24th do. do. No. 2687 W.	......
Water-supply scheme for the town of Bezwada.—Proceedings, Local and Municipal Department, approving the proposals of the Sanitary Engineer regarding the —, recorded.	24th do. do. No. 2688 W.	......
Rent for the Collector's residence at Anantapur.—Orders directing that — be recovered at the rate of Rs. 205 per mensem.	24th do. do. No. 2689 W.	11th Aug. 1893, No. 2855 C. 31st Aug. 1893, No. 2228 W. 19th June 1893, No. 1624 W. 12th April 1892, No. 1215 W. 5th Jan. 1891, No. 10 W. 6th June 1889, No. 1501 W. 3rd Sept. 1886, No. 2196 W. 6th July 1893, Nos. 1757–58 W. 27th Oct. 1884, No. 2637 W. 6th July 1891, No. 1831 W. 30th Jan. 1889, No. 248 W. 11th Aug. 1890, No. 2185 W. 1st July 1890, Nos. 1808–1809 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Programme of famine relief works.—Proceedings, Revenue Department, recording — for 1893–94, received from the Collector of Kurnool, communicated to the Superintending Engineer, III Circle.	24th Oct. 1893, No. 2692 W.	......
Light-house at Pámben.—Sanction accorded to the Executive Engineer, Madura Division, to inspect the — *viâ* Negapatam or Tuticorin for preparing the estimate for certain works required there.	24th do. do. No. 2693 W.	23rd June 1893, No. 1651 W.
Mr. Hutton, Assistant Engineer.—Allowing — a further period in which to pass the professional examination prescribed under the rules before his supersession in the first grade by his juniors.	24th do. do. No. 2695 W.	......
Northern groyne at Cocanada.—Proceedings, Marine Department, regarding the extension of the —, communicated to the Superintending Engineer, I Circle.	24th do. do. No. 2696 W.	......
Funds.—Passing orders on certain modification of — in II Circle.	24th do. do. No. 2697 W.	28th Aug. 1893, No. 2195 W.
Senate-house, Madras.—Letter from the Registrar of the University of Madras intimating that the Accountant-General has been requested to place at the disposal of the Public Works Department Rs. 972 for certain work in connection with the —, communicated to the Consulting Architect and the Examiner.	24th do. do. No. 2698 W.	......
Light-house at Cochin.—Proceedings, Financial Department, requesting the Accountant-General to place Rs. 137 at the disposal of the Public Works Department on account of certain improvements to the lightning conductor of the —, communicated to the Superintending Engineer, IV Circle, and the Examiner.	24th do. do. No. 2699 W.	......
Budget estimate.—Orders on the review of the — of Civil Works in the Vizagapatam Agency for 1894–95 by the Financial Department.	24th do. do. No. 2700 W.	......
Tiled sheds in the compound of the Collector's office, Cuddapah.—Excess allotment for constructing two —, withdrawn.	24th do. do. No. 2701 W.	26th June 1893, No. 1668 C.
Six months' estimate.—The — of the Buildings and Roads Branch for 1893–94, forwarded to the Government of India.	24th do. do. No. 2702 W.	......
Six months' estimate.—The — relating to Military Works in charge of the Public Works Department, Buildings and Roads Branch for 1893–94, forwarded to the Government of India.	24th do. do. No. 2703 W.	......
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, No. I Periyár division.	24th do. do. No. 2704 W.	25th Sept. 1893, No. 2468 W.
Local fund works.—Proceedings in the Local and Municipal Department forwarding to the Accountant-General, with remarks, statements showing the amounts of estimates for — scrutinized by the Public Works Department for the quarter ending 31st March 1893, communicated to the officers concerned.	24th do. do. No. 2705 W.	10th May 1893, No. 422 I. 25th April 1893, No. 1144 W. 29th April 1889, No. 1137 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Lascars.—The entertainment of five — to take surveys and levels for preparation of estimates for certain projects in Tindivanam sub-division, sanctioned.	24th Oct. 1893, No. 2706 W.	9th Sept. 1893, No. 2053 C.
Combined Post and Telegraph office at Núzvid.—Report of the opening of a— in Kistna district, sanctioned.	24th do. do. No. 2707 W.	......
Ekambaranatha temple in Conjeeveram.—Proceedings, Public Department, on the subject of the removal, &c., next year of the first enclosure of the inner shrine of the —, communicated to the Superintending Engineer, V Circle, with request that a Hindu officer be deputed to superintend the work.	24th do. do. No. 2708 W.	9th March 1889, No. 1214 C. 3rd Dec. 1891, No. 5440 C. 5th Feb. 1892, No. 603 C. 21st Sept. 1892, No. 2610 W. 14th Aug. 1893, No. 2081 W.
Administration report.—Letter from the Government of Bombay advising despatch of 4 copies of the — of the Public Works Department for 1892–93 of that Presidency, recorded.	24th do. do. No. 2712 W.	......
Sub-Registrar's office at Tirukkóyilúr, South Arcot district.—The Superintending Engineer, V Circle, directed to submit the requisite estimate for the construction of a —.	24th do. do. No. 2713 W.	......
Sub-Registrar's office at Chettikulam, Trichinopoly district.—The Superintending Engineer, II Circle, directed to submit the requisite estimate for the construction of a —.	24th do. do. No. 2714 W.	......
Indian Atlas sheets.—Sanction accorded to the purchase of certain — from the Assistant Surveyor-General, Calcutta, by the Superintending Engineer, III Circle.	24th do. do. No. 2715 W.	26th Jan. 1888, No. 314 W. 21st Feb. 1889, No. 536 W. 10th March 1890, No. 1306 C. 20th Feb. 1890, No. 557 W. 9th April 1890, No. 1068 W. 7th Dec. 1890, No. 761 I. 6th March 1893, No. 588 W.
Tools.—Sanction accorded to certain — lost in the late famine being written off the returns of the Cuddapah division.	24th do. do. No. 2716 W.	......
Gratuity.—Proceedings, Pension Department, sanctioning a — of Rs. 20 to W. Thondaroyen, late lascar, North Arcot division, Public Works Department, recorded.	24th do. do. No. 2717 W.	......
Mr. T. W. Platel, Accountant.—Sanction accorded to an extension of privilege leave of 15 days being granted to —.	24th do. do. No. 2718 W.	8th Sept. 1893, No. 2321 W.
Medicines.—The Examiner authorised to admit the charge of Rs. 54-9-7 debited to the Gudiváda division on account of value of — supplied by the Medical Storekeeper, Madras.	24th do. do. No. 2719 W.	4th Oct. 1893, No. 2537 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Erratum.—Proceedings, Revenue Department, ordering the publication of an — regarding the spelling of the names of important places in the Madras Presidency, communicated to the Superintending Engineer, IV Circle.	24th Oct. 1893, No. 2721 W.	4th Oct. 1893, No. 2517 W. 8th Aug. 1893, No. 2038 W. 21st July 1893, No. 1887 W. 12th April 1893, No. 990 W.
Books and periodicals.—Proceedings, Financial Department, directing the Accountant-General to arrange for the payment of £275-15-3 to Messrs. F. P. Baker & Co. for — supplied for the first half of 1893, recorded.	24th do. do. No. 2722 W.	......
Huzur cutcherry at Bellary.—The Superintending Engineer, III Circle, directed to submit the requisite plan and estimate for additions and improvements to the —.	24th do. do. No. 2723 W.	8th Jan 1891, No. 82 C. 3rd March 1891, No. 602 W. 5th Jan. 1891, No. 16 W.
Engineer establishment.—Letter from the Government of India forwarding, for guidance, a memorandum on the method of distributing the cadre number of the — according to the limiting scale and the time rule, communicated to the Examiner, Public Works Accounts.	25th do. do. Ne. 2724 W.	12th July 1893, No. 1828 W. 23rd Jan. 1893, No. 158 W. 12th Aug. 1892, No. 2232 W. 2nd Dec. 1892, No. 3293 W. 17th Nov. 1892, Nos. 3155-56 W. 12th Aug. 1892, No. 2232 W. 21st July 1888, No. 2223 W. 9th Jan. 1885, No. 74 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, VI Circle.	25th do. do. No. 2725 W.	4th Oct. 1893, No. 2523 W. 28th Sept. 1893, No. 3218 C. 28th Sept. 1893, No. 2489 W. 17th Aug. 1893, No. 2114 W. 14th June 1893, No. 1580 W. 16th Feb. 1893, No. 410 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, II Circle.	25th do. do. No. 2726 W.	29th Sept. 1893, No. 2505 W. 23rd Sept. 893, No. 2454 W. 9th Sept. 1893, Nos. 2328 W., 28th Aug. 1893, No. 2194 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, VI Circle.	25th do. do. No. 2727 W.	12th Sept. 1893, No. 2347 W. 17th May 1893, No. 1328 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 1st Feb. 1893, No. 222 W. 26th Oct. 1892, No. 2967 W. 23rd Sept. 1892, No. 2644 W. 7th Dec. 1891, No. 3274 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, IV Circle.	25th Oct. 1893, No. 2728 W.	4th Oct. 1893, No. 2519 W. 31st Aug. 1893, No. 2224 W. 4th Sept. 1893, No. 2275 W. 27th Sept. 1893, No. 2481 W. 17th June 1893, No. 1612 W. 7th Oct. 1893, No. 2548 W.
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, V Circle.	25th do. do. No. 2729 W.	28th Sept. 1893, No. 2488 W. 31st Aug. 1893, No. 2225 W. 7th Aug. 1893, No. 2023 W. 20th July 1893, No. 2673 C. 28th April 1890, No. 1233 W. 22nd July 1893, No. 1918 W. 22nd March 1893, No. 786 W. 10th March 1893, No. 654 W. 3rd Aug. 1892, No. 2151 W. 5th April 1892, Nos. 1112–13 W.
Lights and light-houses.—Proceedings, Marine Department; recording the report on — in the Madras Presidency for 1892–93, communicated to officers concerned for information.	25th do. do. No. 2730 W.	25th Oct. 1892, No. 2945 W.
Administration Report.—Review of the — of the Indian Telegraph Department for 1892–93 by the Government of India, communicated to departments of the Secretariat.	25th do. do. No. 2731 W.	26th Oct. 1892, No. 2973 W.
Meteorological Reporter's Telegraph office.—Letter from the Telegraph Superintendent, Madras Division, reporting that the — was opened on the 2nd October 1893, communicated to the Revenue Department.	25th do. do. No. 2732 W.	......
Piping materials.—The Consulting Architect informed that there is no necessity to purchase — as the work for which such stores are required may be given out on contract.	25th do. do. No. 2733 W.	28th June 1893, No. 2449 C. 14th Aug. 1893, No. 2869 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 5th Sept. 1893, No. 2287 W. 28th Sept. 1892, No. 934 D.
Postmaster-General's office, Madras.—Letter from the Director-General of the Post Office of India stating that he has sanctioned an allotment of Rs. 129 for providing teak-wood railing in the —, communicated to the Consulting Architect and the Examiner.	25th Oct. 1893, No. 2734 W.	......
Local fund report.—Proceedings, Local and Municipal Department, reviewing the Kurnool District Board Report for 1892–93, communicated to the Superintending Engineer, III Circle.	25th do. do. No. 2735 W.	......
Local fund report.—Proceedings, Local and Municipal Department, reviewing the South Arcot District Board Report for 1892–93, communicated to the Superintending Engineer, V Circle.	25th do. do. No. 2736 W.	......
Statement of objectionable items.—Orders on the — in the accounts of Executive Engineers remaining unremedied to end of June 1893, I Circle.	25th do. do. No. 2737 W.	11th Oct. 1893, No. 2577 W. 4th Oct. 1893, No. 2529 W. 4th Oct. 1893, No. 2526 W. 18th Sept. 1893, No. 3125 C. 19th Aug. 1893, No. 2142 W. 8th July 1893, No. 1778 W. 11th Oct. 1893, No. 2572 W.
Expenditure.—Proceedings, Financial Department, recording letter from the Government of India forwarding, for information, extract from a despatch from the Secretary of State regarding measures involving increase of —, recorded.	26th do. do. No. 2738 W.	......
Famine relief programme of works in Nellore division.—Proceedings, Revenue Department, recording the revised statement of —, recorded.	26th do. do. No. 2739 W.	13th Sept. 1893, No. 2354 W.
Madras Harbour Works.—Letter from the Director-General of Stores forwarding copy of a report by Sir A. Rendel regarding the supply of steel wheels and axles for the end bogies of the titan-crane for the —, and stating that these have been ordered, communicated to the Chairman, Madras Harbour Trust Board.	26th do. do. No. 2740 W.	27th March 1890, Nos. 985-6-7 W. 14th June 1893, No. 1582 W. 14th June 1893, No. 1583 W. 3rd July 1893, No. 1736 W. 27th July 1893, No. 1941 W. 24th Aug. 1893, No. 2932 C. 16th Oct. 1893, No. 2639 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
District Munsif's court-house at Masulipatam.—Proceedings, Judicial Department, requesting the preparation of estimates for repairs to the —, communicated to the Superintending Engineer, II Circle, for early necessary action.	26th Oct. 1893, No. 2741 W.	......
Bedderu anicut.—Resolution of the Board of Revenue requesting the Collector of Vizagapatam to place the sum of Rs. 1,205 at the disposal of the Public Works Department for repairs to the —, Chidikada estate, communicated to the Superintending Engineer, I Circle.	26th do. do. No. 2742 W.	8th Sept. 1893, No. 2311 W. 4th Oct. 1893, No. 3267 C.
Lakkavaram and Tanjekamydi estates, Gódávari division.—Resolution of the Court of Wards requesting the Collector of Gódávari to place Rs. 371 at the disposal of the Public Works Department on account of establishment charges for carrying out certain incomplete works of 1892–93 in the —, communicated to the Examiner, Public Works Accounts.	26th do. do. No. 2743 W.	......
Surveyor for Cuddapah division.—Passing orders regarding the entertainment of a temporary —.	26th do. do. No. 2744 W.	......
Postmaster's quarters at Kotagiri, Nilgiris.—Letter from the Director-General of the Post Office of India stating that he has sanctioned an allotment of Rs. 112 for constructing a porch in the —, communicated to officers concerned.	26th do. do. No. 2746 W.	......
Stores.—The local purchase of certain English — for canal improvements, &c., in the III Circle, sanctioned.	27th do. do. No. 2750 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W. 20th July 1893, No. 1880 W.
Light-house at Coondapoor.—Proceedings, Financial Department, recording Public Works Proceedings surrendering the allotment of Rs. 10 provided for the preliminary examination of the site for the —, recorded.	27th do. do. No. 2751 W.	19th June 1893, No. 1627 W. 12th Aug. 1893, No. 2068 W. 25th Aug. 1893, No. 2188 W. 11th Oct. 1893, No. 2580 W.
Mr. A. O. Reüss, Foreman, Public Works Workshops.—Proceedings, Public Department, sanctioning the retention in the service of —, communicated to the Superintending Engineer, V Circle.	27th do. do. No. 2752 W.	......
Wesleyan Church, Black Town.—The payment of the bills of Rs. 195 for compensation for sittings in the —, sanctioned.	27th do. do. No. 2753 W.	16th Jan. 1892, No. 255 C. 27th Jan. 1892, No. 417 C. 6th Feb. 1892, No. 370 W. 12th Oct. 1893, No. 3329 C.
M. Shalli Sahib, Clerk, Superintending Engineer's office, III Circle.—Proceedings, Educational Department, sanctioning the exemption of — from examination rules to enable him to be promoted to the first grade of the IV class, communicated to the Superintending Engineer.	27th do. do. No. 2756 W.	26th Sept. 1893, No. 3202 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Tamkam bungalow at Madura.—The execution by the Public Works Department of repairs to the —, sanctioned.	27th Oct. 1893, No. 2757 W.	......
Famine tools.—The sale of certain — of the Kurnool division to the District Board, sanctioned.	27th do. do. No. 2758 W.	27th March 1893, No. 829 W.
Northern groyne at Cocanada.—Proceedings, Marine Department, requesting to know the amount required for completing the extension of the — and sanctioning the loan of Rs. 16,500 from the Malabar District Port fund towards the extension, communicated to the Superintending Engineer, I Circle, with instructions.	27th do. do. No. 2759 W.	25th April 1892, No. 1306 W. 28th April 1892, No. 2263 C. 16th Aug. 1892, No. 2262 W. 31st Aug. 1892, No. 2432 W. 14th Sept. 1892, No. 391 D. 24th Nov. 1892, No. 4937 C. 20th Feb. 1893, No. 774 C. 3rd March 1893, No. 989 C. 9th March 1893, No. 1128 C. 8th Sept 1893, No. 2313 W. 4th Oct. 1893, No. 2520 W.
A. Runga Row, late Accountant.—Declining to reconsider the orders passed regarding the dismissal of —.	27th do. do. No. 2760 W.	29th Sept. 1892, No. 2703 W. 23rd Sept. 1892, No. 2649 W. 24th Oct. 1892, No. 589 D. 17th Dec. 1892, No. 3554 W. 25th Jan. 1893, No. 341 C. 23rd Feb. 1893, No. 825 C. 23rd March 1893 No. 773 W. 21st April 1893, No. 1107 W. 5th Nov 1892, No. 3037 W. 16th Dec. 1892, No. 5340 C. 23rd Dec. 1892, No. 5465 C. 4th Jan 1893, No. 151 W. 24th Jan. 1893, No. 320 C. 28th March 1893, No. 1460 C. 18th April 1893, No. 1086 W. 18th May 1893. No. 1349 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		continued. 31st Jan. 1893, No. 409 C. 13th Feb. 1893, No. 654 C. 28th Feb. 1893, No. 925 C. 4th March 1893, No. 1014 C. 30th March 1893, No. 880 W.
Funds.—Proceedings, Military Department, regarding provision of funds for execution of certain works required to be carried out at Port Blair, recorded.	30th Oct. 1893, No. 2762 W.	......
Rent for Government buildings.—Proceedings, Local and Municipal Department, regarding the liability of district or local boards or other bodies financially independent of Government to pay — occupied as their offices, recorded.	30th do. do. No. 2763 W.	......
Capital and Revenue Accounts of Government buildings.—Letter from the Government of India requesting that in future the — let or available for rent as private residences may be submitted in print, recorded.	31st do. do. No. 2765 W.	14th Oct. 1892, Nos. 2857–58 W.
Local fund report.—Proceedings, Local and Municipal Department, reviewing the Ganjám District Board Report for 1892–93, communicated to the Superintending Engineer, I Circle.	31st do. do. No. 2767 W.	......
Local fund report.—Proceedings, Local and Municipal Department, reviewing the Vizagapatam District Board Report for 1892–93, communicated to the Superintending Engineer, I Circle.	31st do. do. No. 2768 W.	......
Encamping grounds.—Proceedings, Military Department, communicating resolution of the Government of India as to the applicability or otherwise of its orders regarding fixed — selected for troops on the march within the limits of Native States, communicated to officers of the department.	31st do. do. No. 27 69 W.	25th April 1893, No. 1146 W.
Mr. S. R. L. Yeats.—Notification of the Government of India posting—, Officiating Examiner, Public Works Accounts, Central Provinces, to the office of the Examiner, Public Works Accounts, Madras, communicated to the Examiner.	31st do. do. No. 2770 W.	......
Sub-Registrars' offices at Peraiyúr and Tiruppuvanam, Madura district.—The Superintending Engineer, VI Circle, directed to submit the requisite estimates for the construction of office buildings for the—.	31st do. do. No. 2772 W.	......
Bridge.—Proceedings, Judicial Department, sanctioning the estimate of Rs. 22,365 for the construction of a — over Rayagada river, the charge to be met from the Jeypore estate, recorded.	31st do. do. No. 2773 W.	......